VOL. 2.

GRAND RAPIDS, MICHIGAN, WEDNESDAY, MARCH 4, 1885.

If you are selling goods to make a profit, sell

LAVINE WASHING POWDER

This Washing Powder pays the Retailer a larger profit than any in the Market, and is JEWELER, put up in handsome and attractive packages with picture cards with each case. We guarantee it to be the best Washing Powder

made and solicit a trial order. See prices in

Hartford Chemical Co.

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Dealers having a surplus of either Clover Seed or Beans can always find a cash market by addressing

W. T. LAMOREAUX, Agent

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STEAM LAUNDRY

A. K. ALLEN, Proprietor. WE DO ONLY FIRST-CLASS WORK AND USE NO

CHEMICALS. Orders by Mail and Express promptly at

Manufacturers of

Fine Perfumes, Colognes, Hair Oils, Flavoring Extracts, Baking Powders, Bluings, Etc., Etc.

ALSO PROPRIETORS OF

KEMINK'S

al Dayle Ditt "Red Bark Bitters

---AND---

The Oriole Manufacturing Co

78 West Bridge Street,

GRAND RAPIDS. MICHIGAN.



For Sale by F. Brundage & Co., Muskegon; Hazeltine, Perkins & Co., Grand Rapids; H. Walsh & Son, Holland. Manufactured by N. G. VANDERLINDE, Muskegon.

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Grand Haven, Mich.

Manufacturers of the following brands of Ci-

Great Scott, Demolai No. 5, Eldorado, Doncella, Avery's Choice,

Etc., Etc.

Manufactured Tobacco.

DRYDEN & PALMER'S ROCK CANDY.

John Caulfield, Sole Agent for Grand Rapids.

RETAILERS, EDMUND B. DIKEMAN,

-AND-

44 CANAL STREET,

GRAND RAPIDS,

HENRY OTIS.

Special Attention given to Collections in City or Country. Also

FIRE, LIFE & ACCIDENT Ínsurance,

Shoe and Leather Boston Cooper Dayton, OhioDayton, Pa. ..Pittsburgh, Pa. .Cincinnati, Ohio Total Assets represented, \$3,516,808. CORRESPONDENCE SOLICITED.

TOWER & CHAPLIN.

General Collectors,
16 Houseman Block - Grand Rapids

PETER DORAN, Attorney-at-Law,

Pierce Block, Grand Rapids, Michigan, MERCANTILE COLLECTIONS.

WHOLESALE

MEN'S FURNISHING GOODS

Lumberman's Supplies

NOTIONS!

LADIES' AND GENTS' HOSIERY, UNDER-PENDERS, STATIONERY, POCKET CUT-TLERY, THREAD, COMBS, BUTTONS, SMOK-ERS' SUNDRIES, HARMONICAS, VIOLIN ject was dropped. STRINGS, ETC.

I am represented on the road by the following well-known travelers: John D. Man-GUM, A. M. SPRAGUE, JOHN H. EACKER, L. R. CESNA, and J. T. HERRINGTON.

24 Pearl Street - Grand Rapids, Mich.

DESIGNERS AND

Engravers on Wood,

Fine Mechanical and Furniture Work, Including Buildings, Etc.,

49 Lyon St., Opposite Arcade,

GRAND RAPIDS

73 Canal Street, Grand Rapids.

We carry a full line of Seeds of every variety, both for field and garden. Parties in want will do well to write or see the

GRAND RAPIDS GRAIN AND SEED CO. 71 CANAL STREET.

SHRIVER, WEATHERLY & CO.,

Grand Rapids, Mich., WHOLESALE AND RETAIL

IRON PIPE.

Brass Goods, Iron and Brass Fittings, Mantels, Grates, Gas Fixtures,

> Plumbers, Steam Fitters, -And Manufacturers of-

ORGANIZED!

Michigan Dairymen Alive to their Interests.

State Organization Effected-The First Annual Convention a Success—Inter-esting Two Days' Sessions.

Pursuant to call, thirty gentlemen interested in the subject of dairying met at the Supervisor's room, Court block, about ten o'clock, last Wednesday morning, for the purpose of organizing a State Dairymen's Association. The meeting was called to order by C. B. Lambert, of East Saginaw, who nominated Hon. S. L. Fuller, of Grand Rapids, as temporary chairman, and E. A. Stowe was chosen temporary secretary. Mayor Belknap welcomed the gathering in one of his happy, short speeches, in which he referred to the fact that the men who formerly came to Michigan to buy lumber, shingles and coon skins have remained here, and are to-day energetic and prosperous. The people of the State have only lately come to recognize the great importance of the dairy industry, but they are fully alive to the wants of the times, and they demand pure milk, good butter and wholesome cheese at prices which the rich and poor can alike afford. He declared that he could see in the faces of those arround him that the labors of the convention would be fraught with good to themselves and the community in which they live.

Chairman Fuller thanked the Mayor for his words of welcome and proceeded to state the objects of the meeting. There was certain work to be done, in a certain way. The primary object was the establishment of the milk products of Michigan on as high a plane as those of Iowa, giving them a reputation such as we now enjoy as regards apples and as regards wheat in the past. Included under this head comes the question of the breed of cattle, as no man can make it profitable dairying with an 'indifferent set

On roll-call by the Secretary, the following gentlemen responded to their names: R. P. Emerson, Kalamazoo; L. F. Cox, Portage; Isaac Hoag, B. P. Dean, Cedar Springs; John W. Borst, Vriesland; John N. Lockes, E. L. Briggs, Edwin Fallas, Grand Rapids; S. J. Wilson, Flint; D. M. Angell, Lamont; O. Van Buren, Grand Rapids; A. P. Foltz, James Skinner, Davison Station; W. H. Howe, Flint; N. S. Andrews, Dubuque, Iowa; K. B. Edgell, Hopkins Station; D. Cunningham, Geo. Sinclair, Hudsonville; Jos. Post, Clarksville; A. E. Johnson, Sparta; Chas. E. Belknap, Grand Rapids; Jacob Van Putten, Jr., Holland; E. A. Hayen, Warren Haven, Bloomingdale; R. C. Nash, Hilliards; M. Wiggins, Bloomingdale; R. C. Nash, Hilliards; W. S. Luther, Ossian, Iowa; C. B. Lambert, East Saginaw; S. L. Fuller, E. A. Stowe, Grand Rapids.

The question arising as to whether dealers in butter and cheese would be eligible to membership, Mr. Lambert stated that "the dealers are one with us and without their WEAR, MACKINAWS, NECKWEAR, SUS- aid we are powerless," and as this seemed to be the sentiment of the meeting, the sub-

Mr. Lambert moved the appointment of the necessary preliminary committees, which the Chairman announced as follows:

On Permanent Organization—C. B. Lambert, East Saginaw; Jas. Skinner, Davison Station; F. E. Pickett, Hilliards.

On Constitution and By-Laws-E. L. Briggs, Grand Rapids; W. H. Howe, Atlas; Warren Haven, Bloomingdale.

On Programme-W. S. Luther, Ossian, Iowa; N. S. Andrews, Dubuque, Iowa; M. Wiggins, Bloomingdale.

On Dairy Utensils-A. E. Johnson, Sparta John W. Borst, Vriesland; L. F. Cox, Port-

The meeting then adjourned to 1:30 p. m. WEDNESDAY AFTERNOON SESSION. At the afternoon session the following ad-

ditional dairymen were present: G. W. Griffin, Davison; L. Chapin, Lowell; F. Richmond, Saranac; Jos. Post, Clarksville; Chas. Cross, Carson City; C. Case, Crystal; G. B. Gibbs, Greenville; W. Williard, Berlin; C. Post, Belmont; E. J. Savage, Coopersville; H. F. Buskirk, Bradley; John Demstra, Drenthe; J. E. Phillipps, Paris; J. H. Martin, Grand Rapids; Martin L. Sweet, Grand Rapids; Frank J. Lamb, Grand Rapids; John T. Cobb, Schoolcraft; D. P. Clay, Grand Rapids; H. Dale Adams, Little Prai-

Mr. Briggs, chairman of the Committee on Constitution and By-Laws reported a

If a man wishes a cow for milk qualities onend in view; if it was cheese he was after cattle. he should purchase a cheese-making cow. You cannot mix cream of different grades and make good butter, hence the necessity beef cattle.

as selection. The cow is a machine, and in food. the successful butter makers.

Mr. Fuller was followed by Mr. Pickett, who carried the subject somewhat farther, declaring that cows must be treated kindly; even calves from birth must know that their owner is their friend. A cow should never misuse, and he had seen cattle which had injury to the animals so treated. He is satbe whipped, and anything that is unfit for man to eat is unfit for a cow to eat. Mr. Richmond said that he had had

considerable experience in stock raising and in dairies, and had had best results with grade Jerseys. By actual experiment, he had found that the same cow, with proper feeding, will give, in a twenty-quart graduated can, three-fourths of an inch difference in the thickness of the cream. He did not care to give a cow straw diet three times a day, and he never used straw in feeding.

but it requires skill, care and attention in Mr. Andrews believed in feeding a cow from the outside. In his opinion, it is poor policy to feed corn to a cow, when she is standing out-of-doors, and the thermometer is thirty degrees below zero. In selecting breeds for a daily, he would avoid vicious breeds. The dairy business pays the best of anything in Iowa. During 1884, out, but not overworked, so as to break the there were spread over the state, every Saturday night, over \$2,000,000 for dairy products alone.

Mr. Briggs said that the time would come when certain men would breed milch cows, would find the best stock for certain purposes and would use that knowledge with the best results. During a residence of twenty-five years in Kent county, he had seen little improvement in cows.

W. W. Johnson said his experience had more you are cheated. His rule regarding new cheese boxes. It is not good policy to feed is to increase the feed of a cow just as pack roll butter in barrels or large boxes for shipment, for the roll becomes more or less long as she increases her milk, and in his broken; and when offered for sale presents judgment the feeding is a matter of experi-

Mr. Willard questioned the ability of dairymen to govern cows by kindness under all charge of a dairy in Illinois. Three-quarters of the cows were natural kickers, and consequently difficult to milk, but a boy who went through his work singing could milk the most vicious cow in the herd without

Mr. Wiggins was of the opinion that a man ought never to raise his voice above a common tone in speaking to a cow.

Mr. Richmond said the best way to select good milkers was to look into their predecessors "way back to their grandads." The way to treat hereditary kickers was to get rid of them. Mr. Andrews said that butter was more

profitable in Iowa than cheese, as is evidenced by the fact that the State contains article desired. 600 creameries and about 270 cheese fac-

drews in the negative.

Mr. Hoag claimed that it paid to raise er States. one's own calves.

that it is impossible to get milk rich in method.

cream and caseine at the same time. Mr. Sinclair was of the opinion that milk that is good for butter is also good for hances the value of the cheese proportion-

Mr. Dean stated that the trouble with the all the breeding would be that they would grade the cows so high that the dairymen could not buy them.

Mr. Van Buren believed in feeding cows while milking. He considered meal good feed, but sweet corn better yet.

Mr. Sweet described his system of raising sweet corn. He sows early in drills, having Poisons of the State Board of Health, adthe stalks six inches apart one way and two dressed the meeting on the subject of and a half feet the other, so as to grow all "Poisoned Cheese." He stated that poisonprofitable. He related an amusing exper-cheese, such as Limberger, never possesses ience he had with Jersey cattle, and how it these properties-whenever found they are Mr. Luther, chairman of the Committee short-horns, one cow of that breed costing the cow has eaten. Some ascribe the on Programme, reported the order of exer- him \$275, which he sold for \$75. He is now poisonous principle to a plant, but a pe-

Mr. Hoag found that cooked food created

muscle, should enter into butter-making. In food for some time past in his dairy and that and gave them only poisonous cheese and order to compete with oleomargarine and it increased the flow of the milk. Moreover, distilled water. They ate greedily of the butterine, farmers must provide something his cattle do not curl up and shiver, as ani-cheese, and at the end of two weeks seemed better. Much depends upon feeding as well mals frequently do which are given cold none the wors for their peculiar diet. He

men first to improve their stock are to be and oats wet up with hot water. He thought then took some himself, and was poisoned. wet food far preferable to dry.

ble to use a cow in the dairy.

from twelve to fourteen years.

Mr. Richmond found by experiment that ten months a year for eleven years.

lowing paper on "Butter Making," from D. tained an alcoholic extract of the cheese-B. Squibb, of Muskegon: tive, when the product is properly handled;

manufacturing and preparing for market to ensure satisfactory returns. The milk should stand in a clean cellar or out house, free from decaying vegetables, or other odorous substances which the milk; and the cream should be gathered every morning, and not allowed to stand too

In salting, use none but fine salt. Imported is the best. Butter salted with barrel or course salt is objectionable, as the best trade

In packing for market, great pains should be taken, that the packages as well as the butter is inviting and neat. If packed solid, crocks or tubs should be used, with bleached cloth neatly spread over the butter, and a layer of fine salt on the cloth. This excludes the air and preserves the flavor of the butter. If in roll, they should be of uniform size, of about two pound each, neatly wrapbeen that the more you pay for a cow the ped in bleached cloth and packed in tubs or

an unfavorable appearance to the purchaser. Dairymen cannot use too much pains in preparing their butter for the market, for they have a sharp competition in the patent butters that are flooding our markets, and it circumstances. Mr. Lambert related an in- frequently occurs that the counterfeit is sold cident which came to his notice while in more readily than the genuine, owing to the skill with which it is handled. Dairymen cannot afford to let this state of affairs exist, when the remedy is within their reach. Compare the prices of common butter to-day, with the New York State, Iowa and Western Reserve, and you will readily see that the quality governs the price.

It costs but very little more to manufacture a good article of butter than a common

one; and much less to sell it. in a short time the butter milk sours and destroys the flavor of the butter and renders it unsalable except to bakers at a nominal price; and who at times gets the lion's Too much heat either in the dairy or on transit to market, deadens the flavor and renders it undesirable to those who are willing to pay a just compensation for the

These few suggestions are submitted for the consideration of those who are interested in the manufacture and sale of dairy pro-Mr. Howe wanted to know if it was not ducts in our State with a view to further possible for a cow to be good for both butter and cheese, and was answered by Mr. Anutation on the general market in this particular article and compete favorable with oth-

A considerable discussion followed, pro Mr. Howe resumed his inquiries relative and con the subject, during which Mr. Sinto milk being equally valuable for butter clair described the Elgin method of butter or cheese, and was assured by Mr. Lambert | making, and Mr. Luther described the Iowa

Mr. Lambert moved that a stenographer be employed to make a verbatim report of the proceedings of the meeting, for publicacheese, and that the presence of butter en- tion in pamphlet form, which was discussed and lost.

Mr. Adams moved that the Secretary be system of allowing one class of men to do ing as far as he is able, and publish the same for the interest and benefit of the community, which was adopted.

The meeting then adjourned until 7 p. m. WEDNESDAY-EVENING SESSION.

Upon calling to order, Dr. Vaughan, Pro fessor of Chemistry at the Ann Arbor University, and Chairman of the Committee on the ears possible. He cuts the stalks in the ous or "sick" cheese was a matter of great cutter, ears and all, and obtains as much interest to dairymen. It was known as long milk that way as from any feed he can fur- ago as 300 years, and has been a source of nish. He has found that corn and oats, much perplexity to chemists ever since it rie Ronde; W. W. Johnson, Grand Rapids. ground together and fed moderately, is also was first known. The old foul-smelling draft of the same, which was read and cost him about \$1 per pound to fat a Jersey found in new cheese. It is a prevalent idea cow. He also detailed his experience with that sick cheese is caused by something that cises for the afternoon session, the first thing the owner of 100 head of Holsteins, which culiarity of the matter is that no two menin order being a discussion on the "Dairy he finds to be better adapted for cheese, as a tion the same plant. In studying the sub-Cow," lead by Mr. Fuller, who delivered an rule, than for both butter and cheese. In ject, there are three objects to be kept in source, slowly at first, with regular motion, excellent address, which was listened to his opinion the average dairyman does not view—to find out the poison, to find how it in forty to sixty minutes. When butter is with marked attention. His first statement take enough pains in getting good water, gets there, and to prevent its getting there. formed in granules the size of wheat kerwas that if corn is king, the cow is queen. soft water being always preferable to hard. Dr. Vaughan said he was still at work on the nels, draw off the buttermilk; wash with cold Mr. Clay asked if any one present had first question, but hopes to get at the bottom ly he should make his purchase with this had any experience in using cooked food for sometime in the future. An eminent Gerlis left. man writer affirms that the poisonous cheese Galvanized Iron Cornice. for thorough breeding. Brains, as well as Mr. Clay said he had been using cooked which he shut in a room with a bare floor hours; lightly rework and pack.

then killed them, but found no evidence of order to produce the best results must have Mr. Cox said he had obtained good re- bad effect in the stomach, there being no the best of feed, care and treatment. The sults from oil meal and bran, also with corn reddening of the mucous membrane. He Dr. Sternberg, an eminent student of germs, Mr. Sweet asked how long it was profita- obtained some of the germs from poisonous cheese, developed them on beef tea, and fed Mr. Hoag stated that he had seen cows them to some of the lower animals, also ingive out at eight years, from overfeeding or jecting them into their blood, but without been milked for eighteen years and were isfied from his investigations on the subject good milkers yet. The average would be that the poison is neither a vegetable or mineral substance.

NO. 76.

During the outbreak last June, samples of an average cow was good for from nine to the poisonous cheese were sent him for analysis. In order to determine whether The discussion relative to cows having they were really poisonous, he ate some been completed, the Secretary read the fol- himself, and was poisoned. He then ob-

in which no germ could live-evaporated The revenue from the dairy is remunera- the residue, and proved it to be chemical poison. On this point, he is well satisfiedthat the poison is not due to living organisms themselves, but to germs that eat and cast out excretions, and that the excretions are probably the source of the poison. In other words, these germs, although vegetable in growth, are chemical in analysis, and long before churning. When churned, the butter milk should be thoroughly worked poisonous.

In this connection, Dr. Vaughan states that when a poisonous cheese is cut, a creamy fluid will ooze from the cells. If blue litmus paper is applied to the fluid, and the fluid turns the paper an intense red, the cheese is poisonous.

He next made an aqueous extract from the cheese, and found the aqueous extract to be very strongly acid and poisonous. He extracted the water solution, and got a poisonous substance which gave the same reactions as morphine. He has not been able as yet to secure a sufficient quantity of the poison to ascertain the exact nature and composition of the substance. On making the aqueous extract, the first few drops distilled were found to be poisonous, as they caused a smarting of the tongue, dryness in the roof of the mouth, a constriction of the

throat and vomiting and diarrheea. This extract is highly volatile and will decompose by standing in a bottle two weeks and then is no longer poisonous. He does not believe the poison is due to any plane the cow eats, but is solely caused by putrefaction after the cheese is made. It may be that this poison is in the rennet, or may be caused by the curds getting too acid. The coming season he intends spending some time at a cheese factory for the pur-The experienced retailer is aware that pose of making a careful study of every fea-where butter is not sufficiently worked, that ture of cheese-making, and determining pose of making a careful study of every feawhether the organisms will grow and

produce other organisms. Mr. Pickett stated that in Scotland they had a habit of killing the calf before it had taken food. This he thought might cause

the rennet to be poisonous. Dr. Vaughan said that it might have had something to do with it. One peculiar feature of cheese poisoning is that it has never been known to be attended with fatal results, although in sausage poisoning as many as 75 per cent. of the cases have been known

to be fatal. [Continued on inside pages.]

Dairying in a Nutshell. At the last session of the Wisconsin Dairymen's Association, a pithy essay was summed

up thus tersely: Cows-Select cows rich in butter-making

qualities. Feed-Pastures should be dry, free from slough-holes and well-seeded with different kinds of tame grasses, so that good feed is assured. If the feed is timothy or clover, cut early and cure properly. Feed corn stalks, instructed to prepare a report of the meet- pumpkins, ensilage and plenty of vegetables in winter.

Grain-Corn and oats, corn and bran, oil meal in small quantities.

Water-Let cows drink only such water as you would yourself.

Care of Cows-Gentleness and cleanliness. Milking-Brush the udder to free it from impurities. Milk in a clean barn, well ventilated, quickly, cheerfully, with clean hands and pail. Seldom change milkers. Utensils-Better have one cow less than

be without a thermometer. Have churns

with inside fixtures; also have a lever butterworker. Keep sweet and clean. Care of Milk-Strain while warm. Submerge in water forty-eight degrees. Open

setting sixty degrees. Skimming-Skim at twelve hours and at twenty-four hours.

Care of Cream-Care must be exercised to ripen cream by frequent stirrings, keeping at sixty degrees until slightly sour. Churning-Stir the cream thoroughly; tem-

per to sixty degrees; warm or cool with water. Churn immediately when properly water and brine until no trace of buttermilk

Working and Salting-Let the water drain does not manifest itself on the lower ani- out; weigh the butter; salt one ounce to the too much heat for milk, but was good for mals. In order to satisfy himself on this pound; sift salt on the butter, and work with point, he experimented on a number of cats, lever worker. Set away from two to four

The Michigan Tradesman.

A JOURNAL DEVOTED TO THE Mercantile and Manufacturing Interests of the State.

E. A. STOWE, Editor.

Terms \$1 a year in advance, postage paid. Advertising rates made known on application. name.

Michigan Dairymen's Association.

Organized at Grand Rapids, February 25, 1885.

President—Mariin Wiggins, Bloomingdale.
Vice-Presidents—W. H. Howe, Capac; F. C.
Stone, Saginaw City; A. P. Foltz, Davison
Station; F. A. Rockfellow, Carson City;
Warren Haven, Bloomingdale; Chas. E. Belknap, Grand Rapids; L. F. Cox, Portage;
John Vorst, Vriesland; R. C. Nash, Hilliards;
D. M. Adams, Ashland; Jos. Post, Clarksville. retary and Treasurer-E. A. Stowe, Grand

Membership Fee—\$1 per year. Official Organ—The Michigan Tradesman.

Merchants and Manufacturers' Exchange.

Organized at Grand Rapids October 8, 1884.

President—Lester J. Rindge.
Vice-President—Chas. H. Leonard.
Treasurer—Wm. Sears.
Executive Committee—President, Vice-President and Treasurer, ex-officio; O. A. Ball, one year; L. E. Hawkins and R. D. Swartout, two years.
Arbitration Committee—I. M. Clark, Ben W. Putnam, Joseph Houseman.
Transportation Committee—Samuel Sears, Geo. B. Dunton, Amos. S. Musselman.
Insurance Committe—John G. Shields, Arthur Meigs, Wm. T. Lamoreaux.
Manufacturing Committee—Wm. Cartwright, E. S. Pierce, C. W. Jennings.
Annual Meeting—Second Wednesday evening of October.
Regular Meetings—Second Wednesday evening of each month.

POST A.

Organized at Grand Rapids, June 28, 1884.

OFFICERS.

OFFICERS.

President—Wm. Logie.
First Vice-President—Lloyd Max Mills.
Second Vice-President—Stephen A. Sears.
Secretary and Treasurer—L. W. Atkins.
Executive Committee—President and Secretary, ex officio; Chas. S. Robinson, Jas. N. Bradford and W. G. Hawkins.
Election Committee—Geo. H. Seymour, Wallace Franklin, W. H. Downs, Wm. B. Edmunds and D. S. Haugh.
Room Committee—Stephen A. Sears, Wm. Boughton, W. H. Jennings.
Regular Meetings—Last Saturday evening in each month.
Next Meeting—Saturday evening, March 28, at "The Tradesman" office.

Mr. Snooks' present letter will be read with interest by those who deplore the growing decline in matters of religious moment. In a separate note to the editor, he states that the Corners are "all torn up," as he puts it, over the advent of the roller skating craze, and that lively times are in store for the little village. In his letter for next week, he will refer to the developments up to the time of writing.

The convention of dairymen was even more of a success than its most sanguine eral trade Jennisonville. supporters anticipated. Seldom has there been greater interest manifested in the pro- basket factory at Douglas. ceedings of any body, and the results accomplished were amply satisfactory. The drug business at Rockford. TRADESMAN and its editor feel grateful for the confidence reposed in them by the Asso- in general trade at Concord. ciation, and will do all that lies in their power to merit the recognition so handsome- the meat business at Cadillac. ly bestowed.

It is not often that THE TRADESMAN yields so much of its space to any one subject as it does this week to the dairy convention. The only excuse offered is the importance of the subject, and the pressing necessity for co-operation on the part of the dealer and consumer. Not everyone is interested in the manufacture of butter and ser in the bakery business at Zeeland. cheese, but everyone ought to be interested in the production of wholesome articles and use every endeavor to secure that end.

The Northwestern Lumberman takes the following common-sense view of the railway situation in Northwestern Michigan:

It is reported that a survey for the Grand Rapids & Indiana railroad is being made from Cadillac to Frankfort. That should not be wondered at. It would be strange if that company should permit any of the other proposed roads to get there first. There is no reason why the two railroad systems now in western Michigan should not cover the ground and keep out rivalry. They will be foolish if they don't.

"Better Tackle the Job at Once."

From the Northwestern Lumberman A project for improving Grand River for navigation up to Grand Rapids is being disconner in the boot and shoe business at cussed in that Valley. It is thought that it can be done for \$500,000, a capitalist having offered to do the job for that amount. The plan is to deepen the stream by dredging. It is thought that a double object will be selfden, at Banfield. is thought that a double object will be secured by the scheme—Grand Rapids can thus be made a lake port, and deepening the River will prevent an overflow. A direct water route to this city from Grand Rapids would be a great benefit to that thriving second city of Michigan. It also might become the city of Michigan. It also might become the initiative for the proposed waterway across the Lower Peninsula. It is proposed to ask for a Government appropriation to carry for- ville. ward the work. If the citizens of the Valley wait for that they will be gray before they zet the improvement. If only \$500,000 is needed, Grand Rapids and the other towns interested had better tackle the job at once will be continued by Mr. Lane. at their own expense.

The Grocery Market.

Trade has been good and collections fair during the past week. Canned goods are moving more freely, and fish is starting up somewhat. Large quantities of roasted coffee are moving. Kerosene oil has taken the usual spring decline. The other fluctuations in the market are indicated by the change list at the head of Price Current.

Confectionery is steady and more active. Fruits are higher and in active demand. Nuts are easy and in fair demand.

AMONG THE TRADE.

IN THE CITY.

Walker & Farnsworth, the "hill" grocers, have dissolved Mr. Farnsworth continuing. John P. Thomson has purchased the inter-

est of his partner in the grocery business of G. H. Behnke & Co., on East Bridge street, and will continue the business in his own

Capt. Ganoe states that the Barrett will resume her regular daily trips on Grand River as soon as navigation opens. The rate of freight will be the same as last year, viz.: Grand Haven, 6 cents; Chicago, 10 cents; Milwaukee, 12 cents.

Wm. Karston has purchased A. Engberts' store building at Beaver Dam and put in a general stock, purchasing the graceries of Cody, Ball & Co. and the dry goods of P. Rapids.

Next Meeting—Third Tuesday in February, Steketee & Sons. Mr. Engberts has moved 1886.

> John Otis, proprietor of the furnace at Furnaceville, near Mancelona, was in town last week on his way home from Chicago, where he disposed of 100 tons of pig iron to the Chicago Malleable Iron Works and twenty tons to Griffin & Wells at an average price of \$18 per ton net at the furnace. He has still on hand a stock of about 400 tons of iron, and is getting out a large quantity of wood for the coming summer's run, expecting to go into blast again about May 1.

L. S. Wilson, of the firm of Wilson & Howard, at St. Joseph, and clerk of St. Joseph township, Berrien county, was in the city Saturday for the purpose of paying the Grand Rapids National Bank \$6,020 due on bonds and interest from St. Joseph township. In 1865 the township voted \$44,000 to aid in the construction of the C. & W. M. Railway, subsequently making one annual payment of \$4,000. The State Supreme Court having declared such a proceeding unconstitutional, payments were deferred until 1883, when the Supreme Court of the United States reversed the decision of the lower court. The township then paid \$15,000 eash and confessed judgment for about \$100,000, giving new bonds as collateral for the accrued interest. The indebtedness was made payable in fifteen annual payments, this year's payment amounting to \$11,202,75.

AROUND THE STATE.

M. H. Vaughan, grocer at Caro, has as signed.

Fred Nelson has open a meat market at Whitehall.

P. B. Fisk, confectionery dealer at Manistee, has assigned.

C. G. Powers, general dealer at Sherwood, is moving to Quincy.

Andre & Son succeed Andre Bros. in gen-

Wm. Weed & Co. have started up their

C. W. Ives succeeds Holland & Ives in the Laura Cathcart succeeds W. A. Cathcart

Gleason Bros. succeed Perry Nichols in

H. C. Petz succeeds H. H. Everard in the jewelry business at Kalamazoo.

O. W. Knox and W. E. Thorp have moved into their new quarters, at Hart. F. A. Cook & Co. succeed F. E. Turrell in

the hardware business at Bellaire. Frank M. Lester succeeds Riley & Gould in the grocery business at Mendon.

R. Weertman succeeds Weertman & Fis Nathernson & Bernvan

in the grocery business at Kalamazoo. Henry M. Williams succeeds C. G. Parkhurst & Co. in the drug business at Mason. Thompson & Lake, milliners at Whitehall, have dissolved, Mrs. Lake continuing.

Snyder & Barton, of Spring Lake, succeed O. L. Heath in the meat business at Sparta. Perry & Barrett, hardware dealers at Union City, have dissolved, Barrett contin-

Whitmeyer & Barras, crockery dealers at Ionia, have dissolved, Mr. Whitmeyer contin-

E. G. Hunt, of Mason, has purchased the grocery business of Wm. Giberson, at Har-

Conner & Chamberlain succeed Mrs. L. B. Charlevoix.

general stock and store building of Kipp & for dancing, either.

C. Crawford, formerly engaged in the

Messrs. Wunch and Orser have retired Pine Grove. from the firm of Lane, Wunch & Orser, merchants tailors at Muskegon. The business

It is reported by the assignee that the assets of the Hancock jeweler, G. Deimel, Mr. Magee has concluded to locate at Flint. who failed, are \$7,700; liabilities, \$7,600. The appraisement lowered it to \$6,300.

C. C. Sweet, hardware dealer at St. Jo-He will then add lines of dry goods and western traveling representative. boots and shoes.

H. M. Read & Co. succeed Hathaway & Wolff, who will continue the business under evening during the next two weeks. Every Read in the drug business at Howard City. the firm name of Norton & Wolff.



EST & MOST RELIABLE

WHOLESALE

WESTERN MICHIGAN.

Marshall Statesman: S. S. Burpee has sold his store and lot to Messrs. Myron and now in the hardware business at Reed City. compained by his wife. The purchase price was \$6,300, and possession will be given June 1st. Mr. Burpee will sell the present stock of hardware before that time.

MANUFACTURING MATTERS. The Union Windmill Co., at Albion, will establish an European agency.

The Michigan Hoop Factory, at Morrill, has run all winter with a force of 25 hands. Gibbs Bros. expect to start their new mill at Mayfield about May 1. They have banked nearly a million feet of hardwood logs.

R. Conable, of Petoskey, will open a fish a delegate to the Grand Lodge of the Order market in Fort Wayne.

The Covell Brothers, of Whitehall, have lands. The area thus to be disposed of Pomeroy & Lawton's old stand on West Fulamounts to 7,000 acres.

son and J. Widoe & Son have begun the and one-half pound girl, making his fifth. publication of a spicy semi-monthly journal, at Whitehall which they designate the Home

the fact that the St. Charles Hotel, which tion of Traverse City, which he reports as has been closed for about twelve years, working satisfactorily, there being already will be opened the coming season, Chicago sixty members. Mr. Hamilton is accompanied parties having concluded to make the neces- by his wife. sarv repairs.

The Gripsack Brigade. A. B. Morford & Co. have purchased the 500,000 dances. And he don't care much

W. S. Horn, with Fox, Musselman & Lov-It is. Chatters & Talbot—not Chatlers & eridge, will hereafter visit the Northern Talbot—who succeed B. C. Turner & Co. in trade of that house, making his first trip in told him that it was not imported, and the that direction the present week.

Hiram S. Robertson left Monday for drug business at Caledonia, has purchased Washington to witness the inaugural ceremonies and secure a commission as postmaster at Colombia or lighthouse-keeper at

> Geo. S. Megee, Michigan and Northern Ohio representative for the National Tobacco Works, of Louisville, Ky., was in the city last week interviewing the jobbing trade. A. B. Handricks, late of Detroit, has en-

gaged to travel for S. A. Welling, taking the territory tributary to the Saginaw valley, seph, is erecting a new brick building, 66x100 formerly covered by John H. Eacher. The feet in dimensions, which he expects to com- latter succeeds J. T. Harrington, who sevplete by the middle of the present month. ers his connection with the house, as North-A meeting of the traveling men of Grand

Norton & Lester, general dealers at Otse-Rapids is called for Saturday evening, at Norton & Lester, general dealers at Otsego, have dissolved Mr. Lester retiring to engage in business at Saranac. Mr. Norton has formed a copartnership with Gabriel Wolff, who will continue the business under traveling man is invited to be present.

P. W. Travis, general dealer at Otsego, is Theodore Cook, formerly of this city, but visiting the New Orleans Exposition, ac-A. Lindermulder rejoices over the advent

of a ten pound boy, making a quartette of male voices in his family. Geo. W. Bevins, the Tustin general deal-

er, was in town Saturday, on his way home from the New Orleans Exposition.

F. A. Jenison, general dealer at Manton, was in town Saturday, on his way home from the New Orleans Exposition. It is reported that M. Veldman, of the firm

of Veldman & Weiringa, intends building a new store on Henry street the coming season. Frank Gibson, book-keeper for P. Graham, has returned from Detroit, where he went as

of Chosen Friends. W. E. Knox, formerly engaged in the grodecided to sell their stump lands for farming cery business on Broadway, has removed to ton street. He has lately received an addi-H. A. Spink, Jas. J. Gee, W. B. Nicholtion to his family in the shape of are eight

Frank Hamilton, of the firm of Hamilton & Milliken, Traverse City, is in the city for the purpose of buying goods. Mr. Hamilton St. Joseph people are naturaly elated over is President of the Business Men's Associa-

A man who married the daughter of the man who patented the process of condensing W. G. Hawkins is only thirty-two years milk says that he has never regretted his old, but he claims to have attended over choice. His wife is getting royalties amount ing to \$40,000 a year.

> A man died in Detroit a few days ago, while buying a cigar. The dealer probably

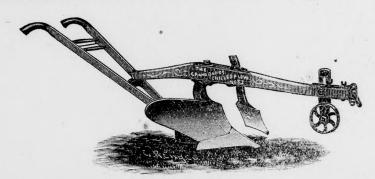
Julius Vogel has leased the hotel and grounds at the old Pioneer Club landing, at Reed's Lake, for a term of three years and will operate the same as a pleasure resort, entertaining respectable people only. The business will be run on the European plan, and every effort will be made to render the landing a pleasant breathing-place.

DISSOLUTION NOTICE

Notice is hereby given that the copartner-ship heretofore existing under the firm name of Andre Bros. has been dissolved. The busi-ness will be continued by H. Andre & Son, who will pay all bills against the late firm, and to whom all the accounts due the late firm are payable. JENNISONVILLE, March 2, 1885.

A Good Chance for Business.

GRAND RAPIDS M'F'G CO.,



TOOLS OF ALL DESCRIPTIONS. Dairy Implements a Specialty.

Factory--Corner Front and Earl streets. Office and Salesrooms--10, 12 and 14 Lyron street, Grand Rapids.

BLANCHARD BROS. & CO

Patent and White Loaf Brands of

Good Goods and Low Prices. We invite Correspondence. Full Roller Process.

CORNER WINTER AND WEST BRIDGE STS.,

GRAND RAPIDS, MICH.

WM. SEARS & CO. Cracker Manufacturers,

Agents for

AMBOY CHEESE

ness. Grand Rapids, Feb. 27, 1885. J. Vogel. 37, 39 & 41 Kent Street, Grand Rapids, Michigan.

Drugs & Medicines

Michigan State Pharmacentical Association. OFFICERS.

President—Geo. W. Crouter, Charlevoix. First Vice-President—Geo. M. McDonald, Kalamazoo. Second Vice-President - B. D. Northrup, Lansing. Third Vice-President-Frank Wurzburg, Gr'd Rapids.
Secretary—Jacob Jesson, Muskegon.
Treasurer—Wm. Dupont, Detroit.
Executive Committee—H. J. Brown, A. B.
Stevens, Geo. Gundrum, W. H. Keller, F. W.
Fincher.

Fincher. Next place of meeting—At Detroit, Tuesday, October 13, 1885.

Grand Rapids Pharmaceutical Society.

ORGANIZED OCTOBER 9, 1884.

OFFICERS.

President—Frank J. Wurzburg.
Vice-President—Wm. L. White.
Secretary—Frank H. Escott.
Treasurer—Henry B. Fairchild.
Board of Censors—John Peck, Chas. P. Bigelow, Jas. S. Cowin.
Board of Trustees—The President, Wm. H. Van Leeuwen, Isaac Watts, Wm. E. White, Wm. L. White.
Committee on Pharmacy—Hugo Thum, M. B. Kimm, A. C. Bauer.
Committee on Legislation—Isaac Watts, O. H. Richmond, Jas. S. Cowin.
Committee on Trade Matters—H. B. Fairchild, John Peck, Wm. H. Van Leeuwen.
Regular Meetings—First Thursday evening in each month.
Annual Meetings—First Thursday evening in OFFICERS.

each month.

Annual Meetings—First Thursday evening in November.

Next Meeting—Thursday evening, March 5, at "The Tradesman" office.

VISITING BUYERS.

The following retail dealers have visited the market during the past week and placed orders with the various houses: L. S. Wilson, Wilson & Howard, St. Joseph. Chas, W. Ives, Real-ford

L. S. Wilson, Wilson & Howard, St. Joséph.
Chas. W. Ives, Rockford.
C. Crawford, Middleville.
Sisson & Lilley Lumber Co., Lilley P. O.
Walling Bros., Lamont.
W. B. Wilson, Muskegon.
G. W. A. Smith, Smith & Field Lumber Co.,
White Cloud.
J. W. Cook, Fennville.
B. Wynhoff, Holland.
F. E. Deming, Freeport,
Wm. Vermeulen, Beaver Dam.
C. L. Bostwick, C. O. Bostwick & Son, Cannonsburg.

nonsburg.
H. B. Irish, Lisbon.
John Otis, J. Otis & Co., Mancelona.
Lon A. Pelton, Morley.
L. L. Maxfield, Fruitport.

Geo. P. Stark, Cascade. D. A. McLeod, McLeod & Trautman Bros Willard Cahoon, Watt & Cahoon, Saranac. D. R. Stoeum, Rockford.

ackson Coon, Rockford. K. Gibbs, Gibbs Bros., Mayfield. B. Norton, Otsego. M. Lester Otsego.

G. B. Norton, Otsego.
G. Wolff, Otsego.
G. Wolff, Otsego.
J. C. Benbow, Cannonsburg.
J. C. Benbow, Cannonsburg.
J. A. Wagner, Eastmanville.
Frank A. Rockfellow, Carson City.
C. E. Kellogg, Grandville.
J. F. A. Raider. Newaygo.
C. L. Frazier, Greenville.
Gary Phelps. Coopersville.
Geo. B. Chambers, Wayland.
Thos. Cooley, Lisbon.
W. H. Struik, Forest Grove.
John Gunstra, Lamont.
Joshua Colby, Colby & Co., Rockford.
Wm. Karston, Beaver Dam.
Geo. Carrington, Trent.
J. W. Mead, Berlin.
Baron & TenHoor, Forest Grove.
Jos. Spires, Leroy.

Jos. Spires, Leroy. J. Omler, Wright. B. M. Denison, East Paris.

J. Omler, Wright.
B. M. Denison, East Paris.
S. Cooper, Parmalee.
J. W. Morton, Quick & Morton, Howard City.
E. C. Foot, West Carlyle.
G. W. Mokema, Graafschaps.
N. S. Loop, Kent City.
Mr. Walbrink, I. J. Quick & Co., Allendale.
A. & L. M. Wolff, Hudsonville.
J. Herringa, East Saugatuck.
J. Herringa, East Saugatuck.
John W. Verhoecks & Co., Grand Haven.
Roys Bros., Cedar Springs,
Morley Bros., Cedar Springs,
Walter Struik, Forest Grove.
Hoag & Judson, Cannonsburg.
A. Sessions, Wayland.
Andre & Son, Jennisonville.

A. Sessions, Wayland.
Andre & Son, Jennisonville.
Norman Harris, Big Springs.
W. W. Pieree, Moline.
W. J. Arnett, Morley.
H. W. Potter, Jennisonville.
Frank Hamilton, Hamilton & Milliken, Howrd City.

rrank Hammon, Hammon and City.
Chas, Cole, Ada.
S. C. Fell, Howard.
Thos. Starrett, Holton.
John Wagner & Wells, Eastmanville.
R. Carlyle, Rockford.
E. W. Pickett, Wayland.
O. D. Chennan, Stanwood. Jay Marlatt, Berlin.

A. C. Snyder, Bassett & Snyder, Cedar

springs.
H. Baker & Son, Drenthe.
Gabriel Wolff, of Norton & Wolff, Otsego.
C. B. Shaver, A. B. Long & Son, Blanchard.
Geo. F. Richardson, Jamestown.
F. A. Jenison, Manton.
Geo. W. Bevins, Tustin.
Dr. M. Crane, Bonanza.
J. F. Mann, Lisbon.
F. A. Rockfellow, Carson City.
John Graham, Wayland.
E. W. Pickett, Wayland.
John Gunstra, Lamont.
Jacob Bartz, North Dorr.
John Giles & Co., Lowell.
Geo. Stevens, Alpine.
M. P. Shields, Hilliards.

FURNITURE BUYERS.

Leonard & Carter, Detroit.
Robert Keith, Kansas City.
King & Elder, Indianapolis.
Dewey & Stone, Omaha.
N. Baraleaux, Chicago.
Krapp & Stoddard, Chicago.
Mr. Wright, of the Tobey Furniture Co., Chicago.

Strange, but True. From the Elk Rapids Progress.

One of our druggists remarks that THE MICHIGAN TRADESMAN is the best trade paper published—its drug quotations being full and complete.

The Drug Market.

Business is good and collections are easy. White lead has advanced 40 cents a hundred. Other articles in the drug line are about steady.

"Speaking of the change against druggists by the Grand Rapids Leader," said L. Max Mills, traveling agent for Hazeltine, Bicromate. Perkins & Co., the other day, "I have made a careful canvass of the situation in my territory and find that only about one in ten of the retail trade sell liquor by the drink. I think this proportion will hold good the country

Furniture Facts.

John Hewitt, furniture dealer at Capac, has failed.

Brown & Burrows succeed Brown & Billings in the furniture business at Coldwater Walker & Laur, furniture dealers at Big Rapids, have dissolved, Mr. Walker contin-

uing.

WHOLESALE PRICE CURRENT.

Sarsaparilla, Hondurus.....

Ruince Rape, English Worm, Levant

Alcohol, grain (bbl \$2.22) \$\mathbb{g}\$ gal...
Alcohol, wood, 95 per cent ex. ref.
Anodyne Hoffman's.....
Arsenic, Donovan's solution....

Annatto, prime

Antimony, powdered, com'l

Arsenic, white, powdered

Calomel, American
Chalk, prepared drop
Chalk, precipitate English
Chalk, red fingers
Chalk, white lump
Chloroform, Squibb's
Colocynth apples
Chloral hydrate, German crusts
Chloral do do cryst
Chloral do Scherin's do
Chloral do do crusts
Chloral do crusts
Chloral do crusts

Chloral hydrate, German crusts.
Chloral do do cryst...
Chloral do Scherin's do ...
Chloral do do crusts...
Chloroform
Cinchonidia, P. & W
Cinchonidia, other brands...
Cloves (Powd 23c)...
Cochineal
Cocoa Butter
Copperas (by bbl 1c)....
Corrosive Sublimate ...
Corks, X and XX—40 off list ...
Cream Tartar, pure powdered ...

Cream Tartar, pure powdered..... Cream Tartar, grocer's, 10 tb box...

Dragon's Blood Mass
Ergot powdered
Ether Squibb's
Emery, Turkish, all No.'s
Epsom Salts
Ergot, fresh
Ether, sulphuric, U. S. P
Flake white
Grains Paradise
Gelatine, Cooper's
Gelatine, French
Glassware, flint, 7') off, by box 60 off
Glassware, green, 60 and 10 dis
Glue, ca Jinet

Hops ¼s and ¼s...... Iodoform ⅌ oz.....

Iodine, resublimed...... Isinglass, American.....

Japonica London Purple

Lead, acetate. Lime, chloride, (½ s 2s 10c & ½ s 11c) Lupuline Lycopodium Mace

Nutgalls. Nutmegs, No. 1 Nux Vomica Ointment. Mercurial, ¼d.

Paris Green...Pepper, Black Berry....Pepsin...Pitch, True Burgundy...

 Spirits Nitre, 4 F
 30 @

 Sugar Milk powdered
 31/4@

 Sulphur, flour
 34/@

 Sulphur, roll
 3/@

 Tartar Emetic
 3/@

Zinc, Sulphate. 7 & 8
Capitol Cylinder Model Cylinder Shields Cylinder Eldorado Engine Peerless Machinery Challenge Machinery Rackus Fine Engine Black Diamond Machinery Castor Machine Oil Paraffine, 25 deg. Paraffine, 28 deg. Sperm, winter bleached Bbl Whale, winter 70
Lard, extra 64
Lard, No. 1 55
Linseed, pure raw 51
Linseed, boiled 54
Neat's Foot, winter strained 70
Spirits Turpentine 36

PAINTS.

Santonin Snuffs, Maccoboy or Scotch..... Soda Ash [by keg 3c]....

Soap, do do Soap, Mazzini. Spirits Nitre, 3 F. Spirits Nitre, 4 F.

Tartar Emetic...
Tar, N. C. Pine, ½ gal. cans � doz
Tar, do quarts in tin....
Tar, do pints in tin...
Turpentine, Venice...

Wax, White, S. & F. brand...
Zinc, Sulphate...
OILS.

SPONGES.

0

45 @

10 @ 15

Celery...... Coriander, best English

Flax, clean.... Flax, pure grd (bbl 3¼).. Foenugreek, powdered...

Fennel Flax, clean..

Advanced-White lead, powdered hellebore, spermacetti.
Declined—Nothing. ACIDS. 9 @ 30 @ 33 @ 33 @ 11 @ 14½@ 3 @ Acetic, No. 8... Acetic, C. P. (Sp. grav. 1.040).... Carbolic..... Carbolic.
Citric.
Muriatic 18 deg.
Nitric 36 deg.
Oxaljc.
Sulphuric 66 deg.
Tartaric powdered.
Renzoic, English.
Tannic. AMMONIA. BALSAMS.

Eim, ground, pure
Elm, powdered, pure
Sassafras, of root.
Wild Cherry, select.
Bayberry powdered.
Hemlock powdered.
Wahoo
Soan ground BERRIES. Cubeb prime (Powd 1 00c)......

@1 00 @ 7 @ 60 EXTRACTS.
Licorice (10 and 25 b boxes, 25c)...
Logwood, bulk (12 and 25 b doxes).
Logwood, 18 (25 b boxes).
Logwood, ½s do
Logwood, ¾s do
Fluid Extracts—25 % cent. off list. FLOWERS. Arnica.....Chamomile, Roman......Chamomile, German..... GUMS.

Ammoniac
Arabic, extra select
Arabic, powdered select
Arabic, lst picked
Arabic, 2d picked
Arabic, 3d picked
Arabic, sifted sorts
Assafcentida, prime (Powd 35c) Assafæntida, prime (Powd 35c)... 19@ Camphor Catechu. Is (½ 14c, ½s 16c) Euphorbium powdered Galbanum strained.....

 Galbanum strained
 90@1 00

 Gamboge
 35

 Kino [Powdered, 30c]
 20

 Mastic
 40

 Opium, pure (Powd \$5.75)
 40

 Shellac, Campbell's
 26

 Shellac, English
 26

 Shellac native
 24

 Shellac bleached
 30

 Tragacanth
 30

 AUMARA (AFS)

 HERBS-IN OUNCE PACKAGES. Hoarhound Rue... Spearmint Sweet Majoram...

LEAVES.

LIQUORS. Carbonate, Pattison's, 2 oz...... Carbonate, Jenning's, 2 oz...... Citrate, H., P. & Co.'s solution....

45 @ 50 45 1 85 50 1 80 Amiser, rectaled
Anise.

Bay 🎖 oz.

Bergamont
Castor
Croton
Cajeput
Cassia Cassia
Cedar, commercial (Pure 75c)....
Citronella
Cloves
Cod Liver, filtered
Regal

Lavender garden do Lavender spike do Lemon, new crop..... Lemon, Sanderson's.....

Lemon, Sanderson S.
Lemongrass.
Olive, Malaga...
Olive, "Sublime Italian Origanum, red flowers, French...
Origanum, No. 1.
Pennyroyal ...
Peppermint, white...
Rose # OZ. nary, French (Flowers \$1 50) Salad Savin Sandal Wood, German Sandal Wood, W. I. Sassafras Spearmint Tansy 4

Tansy 450 65 00
Tar (by gal 50c) 10 6 12
Wintergreen 2 20
Wormwood, No. 1 (Pure \$5.00) 4 00 POTASSIUM.

Prussiate yellow..... ROOTS. Alkanet
Althea, cut
Arrow, St. Vincent's
Arrow, Taylor's, in ½s and ½s
Blood (Powd 18c)
Calamus, peeled
Calamus, German white, peeled Calamus, German white, peeled.
Elecampane, powdered.
Gentian (Powd 15c).
Ginger, African (Powd 16c).
Ginger, Jamaica bleached.
Golden Seal (Powd 30c).
Hellebore, white, powdered.
Ipecac, Rio, powdered.
Licorice, select (Powd 12½).
Licorice, extra select.
Pink, true.

Red Venetian.
Ochre, yellow Marseilles...
Ochre, yellow Bermuda.
Putty, commercial
Putty, strictly pure.
Vermilion, prime American
Vermilion, English.
Green, Peninsular.
Lead, red strictly pure.
Lead, white, strictly pure.
Whiting, white Spanish
Whiting, Gilders'...
White, Paris American.
Whiting Paris English cliff.
Pioneer Prepared Paints...
Swiss Villa Prepared Paints.

HAZELTINE, PERKINS

Wholesale

Druggists

42 and 44 Ottawa Street and 89, 91, 93 an 95 Louis Street.

IMPORTERS AND JOBBERS OF

Drugs, Medicines, Chemicals, Paints, Oils, Varnishes, and Druggist's Glassware.

MANUFACTURERS OF

ELEGANT PHARMACEUTICAL PREPARATIONS, FLUID EXTRACTS AND ELIXIRS.

GENERAL WHOLESALE AGENTS FOR

WOLF, PATTON & CO., AND JOHN L. WHIT-ING, MANUFACTURERS OF FINE PAINT AND VARNISH

BRUSHES.

-Also for the-

GRAND RAPIDS BRUSH Co., MANF'RS OF HAIR, SHOE AND HORSE BRUSHES.

Druggists' Sundries

Our stock in this department of our business is conceded to be one of the largest, best-assorted and diversified to be found in the Northwest. We are heavy importers of many articles ourselves and can offer Fine Solid Back Hair Brushes, French and Eng-glish Tooth and Nail Brushes at attractive

We desire particular attention of those about purchasing outfits for NEW STORES to the fact of our unsurpassed facilities for meeting the wants of this class of buyers without delay and in the most approved and acceptable manner known to the drug trade. Our special efforts in this direction have received from hundreds of our customers the most satisfying recommendations.

Wine and Liquor Department

2 @ 25 2 15 6 50 38 We give our special and personal attention to the selection of choice goods for the drug trade only, and trust we merit the high praise accorded us for so satisfactorily supplying the wants of our customers with Pure Goods in this department. We control and are the only authorized agents for the sale of the celebrated

Withers Dade & Co's

Henderson Co., Ky., SOUR MASH AND OLD FASHIONED HAND MADE, COPPER DISTILLED WHISKYS. We not only offer these goods to be excelled by No OTHER KNOWN BRAND in the market, but using from two and one-half to three and superior in all respects to most that are exposed for sale. We GUARANTEE perfect and complete satisfaction and where this brand of goods has once been introduced the future trade has been assured.

We are also owners of the

 Whale, winter
 70
 75

 Lard, extra
 64
 75

 Lard, No. 1
 55
 65

 Linseed, pure raw
 51
 54

 Linseed, boiled
 54
 57

 Neat's Foot, winter strained
 70
 90

 Spirits Turpentine
 36
 40

 VARNISHES
 1
 10@1
 20

 Extra Turp
 1
 60@1
 70

 Coach Body
 2
 75@3
 70
 70

 No. 1 Turp Furniture
 1
 10@1
 10

 Extra Turp
 1
 55@1
 60

 Japan Dryer, No. 1 Turp
 70@75
 75

 Which continues to have so many favorites among druggists who have sold these goods for a very long time. Buy our

Gins, Brandies & Fine Wines.

We call your attention to the adjoining list of market quotations which we aim to make as complete and perfect as possible. For special quantities and for quotations on such articles as do not appear on the list such the list special we invite your coras Patent Medicines, etc., we invite your correspondence.

Mail orders always receive our special and

HAZELTINE, PERKINS & CO one which comma European market.

ORGANIZED!

ing. During the past season, he had the

[Continued from first page]

-near Mt. Morris, Genesee county-where the patrons were all cheese makers, and his milk bothered him during the past seadidn't want any of his system or theory. Up son, as the curd would not cook or get in to May 20, everything went well, when it shape to draw off the whey, and that he sewas discovered that there was a large cured good results by using sour buttermilk. amount of precipitation, and that the curd was dry and pasty. The action of the ren- perature could be taken for all circumstances. net was an unnatural coagulation. Running The heating of the curd gradually was the from the curd was a fluid about the consist- best. The adding of acid to assist in cooking ency of cream, which tasted like cream from did not make as good keeping cheese as the new milk. He took a good swallow of the gradual cooking process. Milk should be substance and was poisoned. He lost sight, cooled to a low temperature immediately aflost control of his muscles, had a cold sweat, ter being drawn from the cow, of else deturned black, was taken with cramps, vom- composition will set in. His experience in iting and diarrhoea, and emitted from the stomach a green substance. He soon recov- must vary the amount of salt used according ered, however, and worked as usual until to the taint. June 19, when he suddenly became unconcious and exhibited all the symptoms of ar- to satisfy himself on three points—whether terial poison. This time he was compelled to remain in bed about two weeks, after the hot iron test is a test or not, and also which he resumed his place in the factory. On June 26 the milk began to come in tainted, and the gaseous vapor from the receiving can would frequently stifle him. The stench was stronger at times, and on testing the milk it was found that the albumen was en- stop the fermentation process in cheese, the tirely destroyed, and would not coagulate by cooking up to 212 degrees, nor by the application of nitric acid, but would stay in a not a perfect one. Regarding rennet, he preliquid form. Even the cheese smelled unnatural, and it was difficult to determine which emitted the stronger odor, the press o'clock Thursday morning. cloths or the whey tank. On dipping into the tank, a liquid oil was discovered, which, on being mixed with ether, emitted a blue and in the absence of a report on the order blaze. Still another substance was found, resembling Italian macarroni, with a pulpy called on Mr. Howe to lead a discussion of inner substance. In addition to these, dead Cheddar cheese, and the advantages such mice, rats, toads and a deceased garter snake were brought to light. Previous to this cheese. Mr. Howe stated that the overtime, the contents of the tank were found to be a boiling condition, and occasionally a sufficient evidence that Michigan cheese sharp explosion would be heard. This whey makers must produce an article suitable for the patrons insisted on taking home in their the English market. Exporters demand milk cans, but when he found the exact con-cheese made on the improved Cheddar sysdition of the tank he refused to make their tem, soft and mellow, and close in texture. cheese, if they insisted on taking the whey. He took exceptions to the statement that They then hired another man, but insisted Michigan chese was not up to the standard, upon his cleaning the tank. Just before the alleging that the main objection is the prejob was undertaken, Mr. Lambert went to fudice against the form termed "Ohio flats," the tank to get a can of the contents, but be- as the English demand a cheese weighing fore he got ten feet away, the fumes from the about 60 pounds. During the past season can caused him to lose consciousness, and he Mr. Howe has sold his product to Ontario was compelled to keep his bed for ten days. exporters and it has given excellent satisfac-The new maker cleaned the tank thorough- tion. When asked by Mr. Lambert as to ly and from that time on there was no trou- what he meant by the "Cheddar system," he ble from tainted milk. Mr. Lambert's theory was that the poison- system.

ing was caused by some of the patrons not he refused and was made up into butter produced a tainted and unsalable article.

ness that is similar to cheese poisoning, but the force of the escaping acids. that the ordinary milk sickness is an altogether different matter.

left on them, which tainted the rennet, and balance of the season, the owner was offercaused poor cheese, whenever he used it.

tical Cheese Making," in which the writer to-day. Considering the shrinkage in weight, cheese. Upon being questioned by the chair- eign shipment than peddle out at a small adman as to the grounds for his statement that vance to home trade. The great need of the ago had demonstrated this fact to a certain- of cheese can meet them. ty. The paper will be published entire as soon as space permits.

bert on several important points in cheese retain. making. During the twelve years he has Mr. Pickett asked if milk set at 78 denet enough to commence coagulation in thir- perature. ty minutes, after which he allows the curd to Mr. Skinner, in answer to this inquiry, and allows the curd to settle to the bottom, grees, nine and ninety-five one hundredths. one-fourth pounds of salt. He then breaks ed that a good authority declares that it is it up and when cool enough puts it to press. impossible to make cheese from new milk,

ing Cheddar cheese. He heats the milk up of ripeness. to from 82 to 84 degrees, when he adds sufwhen he cuts it lengthways and crossways sell and S. S. Bailey, of Grand Rapids. with a knife, continually turning. He then grinds in a curd mill, and when sufficient appliances then consumed the remaining one which commands a good price in the ly used. The products to be expected from

Mr. Lambert said that salt did not kill the acid. He salts the curd when it is soft, allows it take the acid when in the press, and by this means makes a perfect cheese-one Mr. Lambert then followed with a rela- that will keep for almost any length of tion of his own experience in cheese poison- time.

Mr. Pickett did not think that salt stopmisfortune to be employed in a community ped the action of the acid. Referring to the question of using artificial acid, he said that

Mr. Sinclair did not think any stated temcheese making satisfied him that the maker

Mr. Nash said he came to the convention salt will stop the action of the acid, whether which was the best way to prepare rennet, and also the best rennet to use.

Mr. Pickett asked Dr. Vaughan to express himself on the question of salt. He replied that he was of the opinion that salt would

same as it stops the decomposition of meat. Mr. Howe stated that the hot iron test was fers the Bayarian, or rennet extract.

The convention then adjourned until 9

THURSDAY-MORNING SESSION.

The Chairman called the meeting to order, of business by the Committee on Programme, cheese possess over the ordinary Michigan crowded condition of the home market was replied that he meant the improved Cheddar

Mr. Lambert stated that 99 per cent of the cleaning their cans properly. He is lead to cheese made in Michigan at the present time this opinion by the facts above stated and are not good shipping cheese. Most of the by the additional fact that the milk which trouble from porous cheese is caused by the cows drinking stagnant water. A few years ago he was compelled to make up a vat of Mr. Pickett asked Dr. Vaughan if milk milk in which was the milk of one patron did not sometimes produce a sickness sim- who allowed his cattle to drink at a cess pool. ilar to cheese poisoning, and was answered Soon after making, the cheese swelled up to the effect that sour milk, which had be- from seven to eleven inches, and in two gun to decompose, sometimes produces sick- weeks they rose up and burst, so great was

Mr. Howe, in response to a question from the chair as to the price he realized from his Mr. Howe said he had seen home rennets | Cheddar cheese, replied that his make of which had small quantities of flesh substance | June and July was sold for 9 cents. For the ed 111/2 cents, which he refused, although Mr. Lambert then read a paper on "Prac- he would be glad to take 11 cents for them described at length his system of making it is far preferable to sell in bulk for forbran produces caseine, he stated that Michigan makers is a market, where buyers practical experiments made several years may resort, and where makers and handlers

The question of qualities coming up, Mr. Lambert stated that full cream—or full stock Mr. Skinner did not agree with Mr. Lam- —cheese means all the cream the curd will

been in the cheese business, he has used rengrees was as well as if set at a higher tem-

stand thirty minutes, when he cuts it both stated that his averages during the past ways. He then heats the curd up from 94 three years had been as follows: 80 degrees, to 100 degrees, and lets it stand until the nine and one-half pounds; 82 degrees, nine acid forms, when he draws off the whey, and fifty-five one hundredths; 84 to 86 de-Mr. Pickett, in answer to a question stat-

Mr. Howe described his process of mak- that it must first arrive to a certain degree

During the session, the following additional persons were present: Francis A. minutes. He then heats the curd up to 98 Rockfellow and Edward C. Cummings, degrees, and draws off the whey, allowing Carson City; D. M. Adams and Miss Susie the curd to settle to the bottom of the vat, Adams, Ashland; E. W. Heth, M. C. Rus-

The exhibiting of the products of dairy acid has developed, uses one-half the amount hours up to adjournment. Mr. N. S. Anof the salt. Then he grinds again, adds the drews, of Dubuque, Iowa, exhibited cream remainder of the salt—he uses two and three in glass tubes, prepared before the session. fourths pounds to 1,000 pounds of milk—and He then explained by tests, showing just how does not put to press until it reaches the much butter one could expect from each. temperature of the weather, in warm weath- Some had been adulterated with water. er After pressing fifteen or twenty minutes, Each sample was from different cows. In he takes out the cheese, turns it over, and each tube near the top was the settling of puts it to press again, allowing it to remain the oil. Some was of a light yellowish colin the press from twelve to fifteen hours. or, and one in particular that was darker He then places it in a curing room, which is than the others, he explained was the best ventilated both by doors, windows, floors sample collected. He said that four and a and roofs and kept as near to from 70 to 80 quarter pounds of butter could be made degrees as possible. This process has never from 100 pounds of that cow's milk. She failed to produce a keeping cheese, and was a highly fed animal, grain being large-

[Continued on 6th Page]

E. A. STOWE & BRO., Proprietors.

OFFICE IN EAGLE BUILDING, 3d FLOOR. [Entered at the Postoffice at Grand Rapids as Second-class Matter.]

WEDNESDAY, MARCH 4, 1885.

HOW SHODDY IS MADE.

A New York Tailor on Shoddy and Fulling.

Those acquainted with the process of him who recieves the check or draft, amused with the following:

These passed through the teeth of the ma- exacted in these cases. chine on to revolving knives, just as in a Sometimes the omission of the signature, was the beautiful stuff called shoddy, or draft is presented there in proper form. flock. Then came the dyeing process, and the dirty job was complete."

cloth?"

before the weaving. This gives fictitious edness or trickery which necessarily results. weight and durability to a fabric whose native flimsiness would otherwise betray its worthlessness. As it is, it takes a very little woof."

"But in ready-made clothing?"

by wearing the goods. You have to trust to the honesty of the firm of whom you pur- entirely strange the feeling of being con chase. Though I don't deal in ready-made quered and subdued, that he could not tell goods myself, it is no more than just for me the old gentleman anything about it. It to say that many firms that deal in nothing was a case where he could not combat oppoelse are perfectly honest and trustworthy, sition, and even his ingenious brain could and whose guaranty of what they warrant not fashion any plot which should overis as good as gold. Only, in addition to the whelm the evident predilection the family not, to know that the material has been gentleman's hair rose in wrath. He properly fulled. Without a perfect course stormed of fulling, woolen cloth will always shrink upon becoming damp."

What is the proper means of fulling?

through which cloth passes, or should pass, copper gas generator, never!" before it is ready for the weaver's use. It is a process by which cloth is scoured, cleansed and thickened. It consists of a series of pestles or stampers, which alternately him out of the window. I'll-I'll-why fall into and rise out of a trough, through confound it, girl, haven't I had my ears which the cloth is being passed, along with talked off by him about his darned samples fuller's earth or some other cleansing mate- and stock? Don't I know him? Don't rial. This process, besides ridding the cloth | you let him come and talk to me. If he can of the grease and oil used in preparing wool, talk like that about business, I don't know prevents it from shrinking thereafter, upon what he'll do about love." coming in contact with wet. You often see trousers, for instance, that looked large well let him ask you." enough, and even overlarge, when first put small or all out of shape, after encountering She told her lover of the interview, and cause the material was not thoroughly fulled. him. In selecting clothing material, always make sure that it has been properly fulled.

whether it has been properly fulled or not?

He can't. There is no way by which he important it is for every man to have an hon- not. est tailor! Let me repeat my warning, young man. In selecting clothing material, beware of shoddy, and put your faith in an honest

The Invention of Machine Made Lace. From the English Illustrated Magazine.

Very little had been done before the day on which Hammond and his wife sat drinking in a public house in Nottingham-then reputed a notorious town for ale-bibbing. Hammond had improved the machine above referred to, and, so far as can be learned, was a clever workman, thoroughly conversant with the meshing art, but endowed with so little application and self-government as to render his knowledge of very practical use. He and his wife appear to have been in the habit of drinking to excess together. In 1768 the happy pair were without money, credit or regular employment, and intoxicated into the bargain, when Hammond cast his lack-luster eye upon the broad lace border on his wife's cap and a lace caul, and run more than four months in the year. thought he could imitate the fabric. Having borrowed some silk, he went to work upon his frame, at his home in the Rookery, and produced a net which, with the assistance of his wife, was made into caps, having somewhat the appearance of lace, and which met with ready sale. He called the article Val- heading. The firm also run a twenty-hand enciennes lace, although it had no precise shop at Grand Rapids, working mainly on resemblance to that fabric. Hammond produced very salable articles, and, by making them, obtained a precarious income, "working by day and drinking by night."

Subscribers and others, when writing to advertisers, will confer a favor on the publisher by mentioning that they saw the advertisement in the columns of this paper.

Unsigned Checks and Drafts From Carpet Trade and Review.

It seems superfluous to advise busines men to be always careful to sign checks and endorse drafts, yet one of the common incidents of the counting-room is the discovery that some check or draft lacks the signature essential to make it any more valuable than waste paper.

It saves time to make sure on this point before mailing the paper, and to American business affairs the proverb, "Time is money," is peculiarly applicable. Then due Perk I care in such matters, besides saving time and trouble to the maker of the paper, prevents a greater loss of time, and perhaps temper, and money as well on the part of

manufacture of woolen goods will be much For example: A dealer in some distant city is indebted to a manufacturer or jobber "I can tell you how it was made twelve or in New York, the bill is due at a certain fifteen years ago, when I served my week's date, and when that time comes the manuapprenticeship at it. They may have made facturer, opening a letter from the debtor, improvements in the milling since then, finds enclosed a draft-unsigned, and therethough, of course, the product itself is just fore worthless. It may be that a week or the same mean, swindling, poisonous stuff more must pass before the oversight can be it always was. I was placed over a sort of corrected, and during this time the creditor machine something like a patent straw cut- is deprived from the use of money on which ter, only, in lieu of straw, you fed it with he had confidently counted. Perhaps he cloth scraps, remnants, clippings and rags. loses the interest besides, for it is not always

straw cutter, which minced them up pretty we regret to say, is intentional, and is only a fine. After that they passed through anoth- device to gain time for the debtor, at the exer and yet another machine, getting minced pense of the creditor. It saves the former finer and finer at each operation until the the trouble of asking for an extension, or it stuff was reduced to a coarse powder. This allows him to draw on a bank in which he powder was then bolted, and the fine pow- has no funds by giving him time to deposit der or dust that passed through the last sieve the amount necessary before his check or

But whether the failure to sign such papers is unintentional or premeditated, it is certain "How is the shoddy mixed with the that the temporary advantage which may follow will never repay the business man "It is simply twisted up with the warp for the presumption of either absent-mind-

Silence Gave Consent.

Once upon a time there was a drummer wear and tear to dust out the shoddy, and who met a lovely girl. She belonged to a expose the general wretchedness of the family who had everything they wanted and she was the one woman to whom he never wanted to sell anything. She returned his "There is no means of detecting it save affection. So novel was the sensation of meeting a force he could not cope with, so precautions I have given you, be very care- had against him. But she loved him, and ful, in choosing goods, whether made up or that was all. She told her father. The old

"What, let you marry that blow-pipe, that swivel-tongued, brass-cheeked thing. Never! You may die an old maid. You may select Fulling is the last or finishing process a husband from the dime museum, but this

"But, pa, I want to marry him." "Look here, child. If that fellow ever comes in to talk to me about you, I'll throw

"But, pa, I will marry him. You may as

"All right. I'll listen to him as long as I on, but which, nevertheless, shrink up too can, and when I get worn out I'll kill him." a single hour of wet weather. That is be- he only remarked: "Never mind, I'll fix

So the drummer went into the old man's library. The irate father sat in an easy But how can an inexperienced person tell chair, wayed his hand to the drummer and fixed himself in an attitude of despairing resignation. The drummer had his hat in can. His only safeguard in this respect is to his hand. There was silence. The old man take his tailor's word for it. Hence, how was astonished. Still the drummer spoke

"Well?" said the old fellow. No response. The drummer twirled his hat in his hands and kept his eyes on the floor.

"Arn't you going to speak at all?" yelled the old fellow. Never a word from the Gar drummer. After a few minutes' silence the old fellow said meekly:

"Look here, young man, you want to marry my daughter. Take her. If you are capable of keeping your mourth shut so long for her sake you must love her. But-well -vou've got me. Take her and be happy."

"Thank you," said the drummer. "Good

There are now 117 cotton seed oil mills in the United States, nearly all of them being Garner in the South. Competition has resulted in the increasing of the price of seed, and the reduction of the price of oil until several mills have been forced to suspend. It is stated that \$200,000 were sunk by the Memphis oil mills last year, and few mills can

Quay, Killen & Co.'s new stave amd heading mill at Bailey will have a daily capacity of 30,000 flour barrel staves, 2,500 sets of flour barrel headings, 12,000 packed barrel staves and 750 sets of circled packing barrel packing barrels for the Chicago market.

Dr. Tyndall states that of the radiant energy set up by a gas flame, only the 1-25 part is luminous; the hot products of combustion carry of at least four times as much energy as is radiated, so that not more than one hundredth part of the heat involved in conbustion is converted into light.

Anthracite, egg and grate, car lots. \$6 00@6 Anthracite, stove and nut, car lots. 6 25@6 Ohio Lump, car lots. 3 25@6 Ohio Lump, car lots. 3 25@6 Ohio Lump, car lots. 4 50@5

Dry Goods.		
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COAL AND BUILDING MATERIA	ALS.
A. B. Knowlson quotes as follows:	
Ohio White Lime, per bbl	1 05
Ohio White Lime, car lots	90
Louisville Cement, per bbl	1 40
Akron Cement per bbl	1 40
Buffalo Cement, per bbl	1 40
Car lots1 0	5@1 10
Plastering hair, per bu	5@ 30
Stucco, per bbl	1 75
Land plaster, per ton	
Land plaster, per ton	
Land plaster, car lots	@ \$35
Fire brick, per M	3 00
Fire clay, per bbl	0 00
COAT	A DESCRIPTION OF THE PARTY OF T

TIME TABLES.

ICHIGAN CENTRAL



The Niagara Falls Route.
DEPART.
*Detroit Express 6:00 a m
†Day Express
†Atlantic Express 9:20 p m
ARRIVE.
*Pacific Express 6:00 a m
†Mail 3:20 p m
†Grand Rapids Express
†Daily except Sunday. *Daily.
Sleeping cars run on Atlantic and Pacific
Express.
Direct and prompt connection made with

Western, Grand Trunk and Canada hern trains in same depot at Detroit, thus hern trains in same depot at Detroit, the ling transfers.
e Detroit Express leaving at 6:00 a. m. has wing Room and Parlor Car for Detroit, hing that city at 11:45 a. m., New York 10:30 ..., and Boston 3:05 p. m. next day. train leaves Detroit at 4 p. m. daily except day with drawing room car attached, arrivat Grand Rapids at 10:25 p. m.

J. T. SCHULTZ, Gen'l Agent.

4	Chicago & West Michigan.
6	Leaves. Arrives,
2	+Mail 9:15 a m 4:05 p m
6	†Day Express12:25 p m 11:15 p m
14/01/01	*Night Express 9:35 p m 6:00 a m
6	*Daily. †Daily except Sunday.
2	Pullman Sleeping Cars on all night trains.
6	Through parlor car in charge of careful at-
	tendants without extra charge to Chicago on
	12:25 p. m., and through coach on 9:15 a.m. and

12:25 p. m., and through		
9:35 p. m. trains.		
NEWAYGO	DIVISION.	
	Leaves.	Arrives.
Express	4:15 p m	4:05 p m
Express	8:05 a m	11:15 a m
All trains arrive and	depart from I	Jnion De-

e Northern terminus of this Division is at win, where close connection is made with P. M. trains to and from Ludington and iston

J. H. CARPENTER, Gen'l Pass. Agent. J. B. MULLIKEN, General Manager.

Lake Shore & Michigan Southern.

Muno puere de mar		
(KALAMAZO)	DIVISION.)	
	Arrive.	Leave.
Express	7:00 p m	7:35 a m
Mail		4:00 p m
All trains daily excep	t Sunday.	
The strain leaving	at 4 p. m. co	onnects at
White Pigeon with Atla	intic Expres	s on Main
Line, which has Palace	Drawing Ro	om Sleep
ing Coaches from Chic	ago to New	York and
Boston without change		

on without change.
te train leaving at 7:35 a. m. connects at
te Pigeon (giving one hour for dinner) with
tial New York Express on Main Line.
trough tickets and berths in sleeping
thes can be secured at Union Ticket office,
onre street and depot.

* J. W. McKenney, Gen'l Agent.

Detroit, Grand Haven	& Milwa	ukee.
GOING EAS	T.	
	Arrives.	Leaves.
+Steamboat Express		6:20 a m
+Through Mail	10:15 a m	10:20 a m
†Evening Express	3:20 p m	3:35 p m
*Atlantic Express		10:45 p m
+Mixed, with coach		10:30 a m
GOING WES	ST.	20100 11 22
+Morning Express1		12:55 p m
†Through Mail		5:15 p m
+Steamboat Express1		0.120 P
†Mixed		7:10 a m
*Night Express		5:30 a m
Daily, Sundays excepted	*Daily	
Passengers taking the	3.90 g m	Evpress
make close connections at		

e close connections at Owosso for Lansing at Detroit for New York, arriving there at 0 a. m. the following morning. urlor Cars on Mail Trains, both East and t. ain leaving at 5:15 p.m. will make con-tion with Milwaukee steamers daily except

day.
he mail has a Parlor Car to Detroit. The
htt Express has a through Wagner Car and
al Sleeping Car Detroit to Grand Rapids.
D. Porter, City Pass. Agent.
EO. B. Reeve, Traffic Manager, Chicago.

Grand Ranida & Indiana

	Grand Rapids & Indiana.	
١	GOING NORTH.	
.	Arrives.	Leaves
	Cincinnati & Gd Rapids Ex 8:45 p m	
	Cincinnati & Mackinac Ex. 9:20 a m	10:25 a m
1	Ft. Wayne & Mackinac Ex 3:55 p m	5:00 p m
3	G'd Rapids & Cadillac Ac.	7:10 a m
3	GOING SOUTH.	
3	G. Rapids & Cincinnati Ex.	7:00 a m
9	Mackinac & Cincinnati Ex. 4:05 p m	4:35 p m
3	Mackinac & Ft. Way: e Ex. 10:25 a m	11:45 p m
2	Cadillac & G'd Rapids Ac. 7:40 p m	
	All trains daily except Sunday.	
2	STEEDING CAR ARRANGEMENT	S.

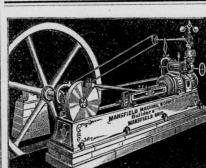
SLEEPING CAR ARRANGEMENTS. orth—Train leaving at 5:00 o'clock p. m. Woodruff Sleeping Cars for Petoskey and kinac City. Train leaving at 10:25 a. m. has bined Sleeping and Chair Car for Traverse

uth—Train leaving at 4:35 p. m. bas Wood-Sleeping Car for Cincinnati. С. L. Lоскwood, Gen'l Pass. Agent.

Detroit, Mackinac & Marquette.

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	AM.		1.	
	9 35	Detroit	3 3	0

Connections made at Marquette and Negau-nee with the M. H. & O. R. R. for the iron, gold silver and copper districts; at Reedsboro with a daily stage line for Manistique; at Seney with tri-weekly stage for Grand Marais; at St. Ignace with the M. C. and G. R. & I. Railways for all points east and south; also daily stage line to Sault St. Marie. F. MILLIGAN, G. F. & P. A.



PORTABLE AND STATIONARY

ENGINES

From 2 to 150 Horse-Power, Boilers, Saw Mills, Grist Mills, Wood Working Machinery, Shafting, Pulleys and Boxes. Contracts made for Complete Outfits.

W. C. Denison,

88, 90 and 92 South Division Street, 3 25@3 50 GRAND RAPIDS,

ARAB PLUG!

The Best and Most Attractive Goods on the Market. Send for Sample · Butt. See Quotations in Price-Current.

Fox, Musselman & Loveridge

JENNINGS & SMITH

PROPRIETORS OF THE

Arctic Manufacturing Co.,

20 Lyon St., Grand Rapids.

ASK YOUR JOBBER FOR

Jennings' Flavoring Extracts,

Baking Arctic

Powder.

We manufacture a full line, use the best material obtainable, and guarantee our goods to be first-

We carry an immense stock of Virginia and Tennessee Peanuts, Almonds, Brazils, Filberts, Peacans, Walnuts and Cocoanuts, and compete with any market.

Oranges

We handle FLORIDA Oranges direct from the groves. The crop is large and fine and low prices are looked for.

We are agents for the CEL-EBRATED J. S. FARREN & CO.'S Oysters and are prepared to fill orders for large or small lots, cans or in bulk, at the lowest rates.

& Brooks. Putnam

SPRING & COMPANY,

WHOLESALE DEALERS IN

Staple and Fancy

DRY GOODS,

CARPETS.

MATTINGS,

CLOTHS

ETC., ETC.

6 and 8 Monroe Street,

MICHIGAN. Crand Rapids.

Michigan.

BUSINESS LAW.

Brief Digests of Recent Decisions in Courts of Last Resort.

STATUTE OF LIMITATIONS—ABSENCES. The "trips" of a commercial traveler lasting several months at a time are "absences" within the meaning of a legislative provision suspending the operation of the statute of limitations, where the traveler being a resident of the state, leaves no settled place of abode therein and no family on a member of which process can be served, according to the decision of the St. Louis Court of Ap-

MEASURE OF DAMAGES-INJURY TO GOODS.

Where goods are injured while in transit the measure of damages is the reasonable market value of the goods at the point of destination at the date at which they should have arrived there according to the carrier's undertaking, less what they were worth at the date when they did arrive in their damaged condition. So held by the St. Louis Court of Appeals.

FRAUDULENT CONVEYANCE-RELATION-

In the case of Caudill vs. Goeble, decided by the Kentucky Court of Appeals, certain conveyances from a mother to her daughter and son-in-law were held to be fraudulent, the grantor being indebted at the time in a sum sufficient to swallow up her estate, and the relations of the parties being such that the grantees, who failed to explain satisfactorily how the recited consideration was paid, must have known of the financial embarrassment of the grantor and of the fraudulent design.

STATUTORY CONSTRUCTION-COMMERCIAL DESIGNATION.

The English Adulteration act of 1875 required, under penalties, that articles of food sold be of "the nature, substance and quality" of the article demanded. In construing this statute the Queen's Bench Division of the High Court of Justice lately held (Lane vs. Collins) that when "milk" was asked for the statute was sufficiently complied with if skimmed milk was supplied; that is to say, milk 60 per cent. deficient in butter fat. This decision, according to the report, was put upon the ground that skimmed milk was the milk of commerce.

LANDLORD AND TENANT-WAIVER OF SUM-MARY REMEDY.

According to the decision of the St. Louis Court of Appeals, if the landlord in a tenancy from month to month takes the tenant's negotiable note for rent in arrears, and accepts payment of rent for subsequent months he waives the right to the summary remedies given by the statute for the possession and for the rent for which he has taken the note. By the acceptance of the tenant's note, in the absence of an agreement to the contrary, the debt, according to the court, loses its distinctive character of rent and becomes an ordinary indebtedness, and the summary remedies given by the statute are waived in respect of installments of rent already due by accepting subsequent install-

INSURANCE POLICY-INCREASED RISK-WAIVER.

In an action on a policy of insurance the crease of risk. So held by the Supreme Court of Louisiana in the case of Storey vs. show such waiver, although the policy, con tained a clause requiring the agreement of

MORTGAGE.

Where a note and mortgage were executed for an amount in excess of the actual indebtedness existing from the mortgagor to the mortgagee to take up an old note and mortgage given in good faith to secure an actual indebtedness, with the understanding that upon the execution of the new note all the credits that were upon the old note should be placed upon the new note, and where such understanding was carried out by the mortgagee, and in the overstatement of the amount secured there was no intent of either party to hinder, delay or defraud the mortgagor's creditors, the Supreme Court of Kansas held that such mortgage mortgagor to the mortgagee."

SUBSCRIPTION-INCOMPLETE AGREEMENT. A subscription in these words, "We, the undersigned, hereby subscribe for the amount of stock opposite our names, and mum. It's a bunghole without a barrel agree to pay the same in four quarterly in- around it," shouted little Ted Saunders, stallments, viz.: February 15, April 15, whose father is a cooper. June 15 and August 15, for the purpose of Georgia to be, on its face, an incomplete hitherto worthless cobs to \$24 a wagon load. to handle it. agreement, as being entirely silent as to the location and nature of the structure, as to whether the company was to be a joint stock riculture has voted that the amendment procompany an incorporation as to what amount hibiting the manufacture and sale of oleo-

and as to the mode and method of raising the necessary fund to complete and equip the building, the specific purposes for which it was to be used, and the way in which its business was to be conducted.

CONSIGNMENT-BILL OF LADING-PAY-MENT.

In the case of Ruhl et al. vs. Corner et al., decided by the Maryland Court of Appeals, it appeared that the appellees, commission merchants in Baltimore, received a shipment of a carload of "Champion" flour of 125 barrels from Merian & Co. of Minneapolis, Minn., without order, who advised the appellees of the shipment by letter, stating the price at which the firm should sell the flour. No bill of lading was sent the appellees, but at the time of the shipment a shipping receipt was taken from the railroad company for the flour, and that, with a draft on the appellees for \$500, was placed in bank for transmission to Baltimore, but was subsequently withdrawn and was never sent. Subsequent to the shipment to the appellees Merian & Co. received an order for flour from the appellants, and decided to change the shipment and to send to the appellants this car of flour on their order with a bill of lading. Accordingly the Chicago agent of the railroad company was telegraphed to hold the flour, as Merian & Co. wished to more labeled for the appellees and was delivered to them. The bill of lading in favor of the appellants, with a draft on them for \$615, was presented by Merian & Co. to the Security Bank of Minnesota, and the draft was cashed by the bank, which sent both bill of lading and draft to the Bank of Compellants paid the draft, and received in consideration of such payment the bill of lading for the flour. Ascertaining that the flour had been received by the appellees, the appellants demanded payment of the same, and the Baltimore & Ohio Railroad, the carriers of the cargo, demanded the flour. The lower court decided that the appellees were entitled to it, but the Court of Appeals held that the appellants were the proper custodians of the flour, having ordered and paid for it, the appellees not having ordered it, and that they had the right to maintain their action in the case.

PENCIL PORTRAITS-NO. 41.

Silas K. Bolles, Better Known as "Captain." S. K. Bolles was born at Trenton, Oneida county, New York, November 30, 1839. When thirteen years of age his parents removed to Hillsdale, this State, where Silas entered the employ of a hardware firm to learn the tinner's trade. Two years later he went to Delavan, Wis., where he worked in a hardware store about two years. He then returned to this State, locating at Coldwater, where he remained most of the time until 1872. During this time he was a partner in a hardware business, and for a time carried on the hardware business at Union City. Coming to Grand Rapids in 1872, he was identified with E. W. Markham for a couple of years, when he accepted a position with Carpenter, Judd & Co., with whom he remained a similar period. He then traveled in Michigan and Wisconsin for a year selling cutlery for Randall, Hall & Co., of Chicago. His next move was to engage with Locha & Webb, eigar manufacturers of this city, with act of the insurerer who has knowledge of whom he remained about a year, covering an increase of risk by a change of use of the the Michigan trade. He then identified himinsured premises without objecting to the self with B. S. Tibbetts, the Coldwater cigar same, or canceling the policy, will be manufacturer, with whom he continued on construed as a waiver of his right of forfeit- the best of terms for five years. He has ure of the contract by reason of such in- since represented G. H. Mack & Co., of Cleveland and J. W. Coughtry & Son. of Cigarville, N. Y., but he is now engaged The Hope Insurance Company. The court with Glaser & Frame, of Reading, Pa., in held that parol testimony was admissible to whose behalf he visits the jobbing trade in Michigan and Northern Indiana and Ohio.

Mr. Bolles probably possesses as even a the insurer to be indorsed on the policy, and temper as any man who ever lived. He is said that if the insurer, after knowledge of the very soul of honor, being concientious in the increase of risk, continued to receive all his dealings, business and otherwise. premiums, he would be held to have waived Though past the age when men attempt to "set the world afire," he is, nevertheless, an active and efficient worker, and is able to at-FRAUDULENT CONVEYANCE—NOTE AND tract and hold no inconsiderable trade by reason of his well-known integrity and good

> Of the increased requirements on the tinner, as compared with former times, the House Furnisher says: "The tinsmith, now-a-days to be able to properly compete with ironmonger and the stove manufacturhas now to do with apparatus skillfully devised and fitted with interior mechanism which will produce results that the tinsmith, before him never dreamed of."

The statistics of the petroleum pipe lines was not fraudulent in toto because upon its of Pennsylvania show that the production of face it secured an amount of indebtedness oil in 1884 was 24,104,160 barrels, representin excess of that actually existing from the ing a daily consumption of 66,038 barrels. In 1863, the consumption was 63,021 barrels

> "Can you give me the definition of nothing?" inquired a school teacher. "Yes,

It pays Western farmers to shell their corn

The Maine Legislative Committee on Agwas necessary to accomplish the object sought | margarine in the state ought to pass.

Chew BOOT PLUG Tobacco

Is a new brand of Tobacco, with a new sweet flavor that can not be excelled. Chewers who have given it a trial will take no other.

The Consumer Gets the Boots.

We pack a TIN ORDER in one of the lumps in each Butt which is good for either one pair of heavy No. 1 Kip Boots, or one pair of Fancy Calf Boots, or one pair of Calf Button Shoes.

HOW TO GET THE BOOTS.

Send the Boot Order with size wanted, Name, Town, County and State change the consignment to the appellants, plainly written to the undersigned, and they will forward the boots by the next but in the meantime the flour came to Balti- Express. DON'T FORGET TO MENTION THE KIND WANTED.

Tobacco Manufacturers, merce in Baltimore, to which bank the ap- Canal and Monroe Streets, CHICACO, ILL.

FOR SALE BY ALL FIRST CLASS JOBBERS.

JOHN CAULFIELD, A. B. KNOWLSON, WHOLESALE

GROCER

85, 87 and 89 Canal St.

STERS

WHOLESALE

117 Monroe St.

F. J. Dettenthaler

CEO. N. DAVIS & CO.

General Commission and Brokerage,

For all kinds of foreign and domestic FRUITS, PRODUCE, and MANUFACTURED GOODS of every description.

Having been in business in this city for the past twelve years, and having an extensive acquaintance with the Wholesale and Retail trade in this vicinity, we are able to give

our shippers the benefit of our long experience. Any goods consigned to us will have our best attention. We have STORAGE or er, must possess at least some pretension to mechanical science; for his simple pot, or pan, or lid, is something more than that. He

71 Canal Street, Grand Rapids.

DETROIT SOAP CO.'S

SOAF

A ("smash up the clothes boiler," "throw away the wash-board," "wash without labor") Soap; is not
A (grand piano, gold watch, house and lot with every bar, "save the wrappers") Soap; is not
A (towel, napkin, dish-rag, dry goods store thrown in) Soap; is not
A (here-to-day and gone to-morrow) Soap; is not
A (sell a quarter of a box, and have the balance left on your hands) Soap;

It pays Western farmers to shell their corn and send music," was held by the Supreme Court of Georgia to be on its face an incomplete.

It pays Western farmers to shell their corn and sell the cobs separately. The demand for corn-cob pipes has raised the price of tried "QUEEN ANNE SOAP," buy a sample box and you will always continue

Grand Rapids.

STRAIGHT COODS...NO SCHEME



PLUG.

John Caulfield,

Sole Agent.

E FALLAS,

Wholesale & Commission---Butter & Eggs a Specialty.

Choice Butter always on hand. All Orders receive Prompt and Careful Attention. 125 and 127 Canal Street. Grand Rapids, Michigan.

See Our Wholesale Quotations elsewhere in this issue and write for

Special Prices in Car Lots.

We are prepared to make Bottom Prices on anything we handle.

3 Canal Street, Basement, Grand Rapids, Mich.

CAN Covered with Tin. GLASS



The NEATEST THING On the Market

Curtiss, Dunton & Co.,

Woodenware, Twines and Cordage, Paper, Stationery, Kerosene and Machine Oils, Naptha and Gasoline.

Grand Rapids, Mich.

We are sole Michigan agents for the celebrated "F" brand, packed by J. S. FARREN & CO., Baltimore, and are prepared to fill orders for CAN or BULK oysters at the lowest market prices either from here or from Baltimore direct. NO BETTER GOODS PUT UP. H. M. BLIVEN has charge of this department and will give your orders personal and prompt attention. We solicit your order.

Brooks.

The Tradesman office has now first-class facilities for doing all kinds of

Commercial Work,

Such as Letter, Note and Bill Heads, Statements, Cards, Envelopes, Blank Orders, Circulars, Dodgers, Etc.

NEW TYPE, NEW PRESS, CLEAN WORK.

the other samples were given, and the ex- with the objects of the new organization planations were listened to with interest. A and would be glad to hear from the memcommittee of three were appointed to collect samples for another test, and the convention adjourned until 1:30 p. m.

THURSDAY—AFTERNOON SESSION.

The first business in order was the reading of the report of the Committee on Permanent Organization, which was as fol-

Your Committee on Permanent Organiza- scale. tion, fully realizing the responsibility that must devolve upon the officers that shall be chosen at the first meeting, in order to make Prof. Arnold asserts that the farm creamer this Association a success in the future, and owing to being comparative strangers we have been somewhat at a loss to make selections. hibition the farm creameries carried off al But after due deliberation we have made selections of the following gentlemen and cream loses its identity and has no distinct earnestly hope that they will accept the positions assigned to them, with a sense of the responsibility that will devolve upon them of a large creamery in Iowa-said that Mo and that they will spare no pains to make Wilson's remarks were correct, but that th the Association a success:

ingdale.

Howe, Capac; Saginaw, F. C. Stone, Saginaw farmer to make into butter. The farm City; Genesee, A. P. Foltz, Davison; Mont-creamery is the best, but not always the calm, F. A. Rockfellow, Carson City; Len- most profitable. awee, B. Davis, Jasper; Van Buren, War-Belknap, Grand Rapids; Kalamazoo, L. F. found it did not pay to scald the food. Cox, Portage; Ottawa, John Borst, Vries- Mr. Van Buren said he had found by e land; Allegan, R. C. Nash, Hilliards: Newaygo, D. M. Adams, Ashland; Ionia, Jos. Post. Clarksville.

ids.

C. B. LAMBERT, JAS. SKINNER. Committee

Chairman Fuller then called the newlyelected President to the chair, assuring him had known of it sooner, I surely should ha of the arduous task he was about to assume, and bespeaking for him the cordial co-operation of every member of the Association. eration of every member of the Association.

Mr. Wiggins, on taking the chair, spoke tirely the manufacture and sale of any st substantially as follows: Gentlemen of the Convention:

I thank you for the honor you have conferred upon me, and in accepting it I already feel the burden to which our worthy and able temporary chairman alluded and owing to which he emphatically declined to become our permanent chairman. It may be that we do not see or realize the full weight of the duties that may devolve upon us. But we do see the necessity for concerted and intelligent action on the part of Michigan dairymen. To further such action to the best of my ability is what I pledge to you, and I take it that in electing me you have each and everyone pledged me your support. From what we have heard during this coneach and everyone pledged me your support.

From what we have heard during this convention, the intelligent dairyman will discover that it is not wise to feed all of his cows alike, and that all cows are not to be judged alike—that some are good for butter.

Static. The New York law provides for a commissioner, at a salary, to look after the missioner, at a salary judged alike-that some are good for butter and some are good for cheese. More than anything, we have learned that it is not safe anything, we have learned that it is not safe to go by rule, that one man's way may be as I would like if your convention would good as another's, that external vigilance is I thank you for this unexpected and un-

Mr. Pickett offered the following resolution, which was unanimously adopted:

Resolved-That the thanks of this convention be tendered Mr. Fuller for his faithful labors as presiding officer the past two

Mr. Fuller moved that a vote of thanks be tendered the Secretary for his efforts in behalf of the Association, which was unanimously adopted.

Mr. Lambert offered the following resolu-

Resolved—That the thanks of the convention be tendered Prof. Vaughan for his instructive address on cheese poisoning, and also to the Board of Health for bearing the expenses incident to Dr. Vaughan's visit to this city.

Mr. Pickett presented the following communication and moved its adoption: To the Michigan Dairymen's Association:

GENTLEMEN-I hereby tender you the free use of two or more columns of space in THE MICHIGAN TRADESMAN for the publication of such matters as it may be desirable to put before the dairymen of this State.

Trusting that you will accept the offer in the same spirit in which it is made, I am Yours truly, E. A. STOWE.

The offer was accepted with thanks, and on the amendment of Mr. Fuller, THE TRADESMAN was designated the official or-

gan of the Association. The Committee on Exhibits made the following report, which was accepted:

To the officers and members of the Michigan Dairymen's Association:

Your Committee on Dairy Exhibits would

report the following exhibits: J. Van Putten & Co., Holland-Four ash

Butter Tub. Michigan Dairy Salt Co., Saginaw-Sam-

ples of fine dairy salt.

Acme Manufacturing Co., Kalamazoo-Acme Cabinet Creamer, large and small size, Dairy Queen Churn.

Grand Rapids Manufacturing Co.-O. K. Churn; Davis Swing Chur; Butter Print.

the whole consider them far superior to the exceptionally fine showing—one calculated commend the same to all butter makers.

All of which is respectfully submitted. A. E. JOHNSON. J. W. BORST,

Mr. Luther stated that he saw Col. Robert M. Littler in Chicago on his way to Grand Rapids, and that Mr. Littler wished it stated that he was in hearty sympathy bers of the Association at any time.

Mr. Lambert then read a paper on "Creamery Butter," which was ordered published by vote of the convention.

Mr. Clay wanted to know if it was not a good idea to encourage small dairies and small creameries. Also if better butter could not be made on a small than on a large

Mr. Wilson said that the large factory men loomed up over the smaller dairymen ies excel the large factories in the quality of butter, and in a recent competitive ex the honors. Under the factory system, the

Mr. Andrews-who is himself the owner whole matter resolved itself into a questio For President-Marlin Wiggins, Bloom- of dollars and cents. The reason the larg creameries exist is because they can pa For Vice-Presidents-St. Clair, W. H. more for the cream than it is worth to the

Mr. Dean said his cattle did well on cool ren Haven, Bloomingdale; Kent, Chas. E. ed food, but did not increase their milk. H

periment that dry feed paid better than we The following letter from Hon. Sewan Baker, relative to his anti-butter substitut For Secretary-E. A. Stowe, Grand Rap-bill, now before the Legislature, was reand placed on file.:

LANSING, Feb. 23, 1885. Mr. E. A. Stowe, Grand Rapids, Mich.

DEAR SIR-Yours of the 19th at hand a in reply will say that it will be impossit for me to be present at your convention. It hands of the committee, but it prohibits e stitute for butter under a penalty.

Since the thing has become agitated, I told that such a bill would be unconsti tional. The reason that I have not call for the report of the bill from the commi is that I have been busily engaged in getti all the information on the subject possib such as the general make up of the different substitutes and their effects as regarders.

act a law that the Supreme Court would aside.

of this kind remains a question. Their s timent heretofore has been against crea

od as another's, that external vigilance is e price of good butter and cheese. Again thank you for this unexpected and unsupply hence. to be done to prevent this growing encrosument upon the rights of the dairymen

farmers of our State.

Mr. Wellman has also introduced which has the same effect as mine, which also in the hands of the committee.

Hoping that your convention will a some method by which a redress for t grievances may be had. I remain Yours truly,

SEWARD BAKE

Six crocks of butter brought in by ty were examined by a

		1	2	3	14	5	6
,	Quality 10 points Flavor 10 points Keep. qual. 10 points Salt 5 points Making 5 points Texture 10 points Color 5 points	4 2½ 2½ 2½ 2½	2 2 3 3 2½ 2 0	6 6 4 4 7 0	5 2 4 2½ 2½ 2½ 2½ 0	5 2 2 4 2 ¹ / ₂ 2 ¹ / ₂ 1	5 4 6 4 3 6 4
		181/2	141/2	34	181/2	19	32

A special committee consisting of Me J. H. Walker and W. W. Johnson repo as follows:

Your Committee on the Churn for ing Milk report that they used six san of milk and while they had not time make a thorough test, they satisfied the selves that there was sufficient merit to duce each one of the Committee to inv them. We think it is a simple way of paring the value of cows and testing the ne of milk for butter and cheese.

The convention then adjourned sine

THE EXHIBITORS.

The personel of the exhibitors present

butter tubs.

Flint Cabinet Creamery Co., Flint—Wilson Cabinet Creamer; Wilson Barrel Churn.

N. S. Andrews, Dubuque, Iowa—Adams
Test Churn; Harvey Transportation Can;
Harvey Milk Setter.

W. S. Luther, Ossian, Iowa—McAdams
Butter Tub.

Raisins, Dehesias.

Kerosene OII...

Kerosene OII...

Kerosene OII...

Kerosene OII...

Kerosene OII...

Kerosene OII...

Matches.

Grand Haven, No. 9, square.

Grand Haven, No. 200, parlor.

Grand Haven, No. 300, parlor.

Grand Haven, No. 200, parlor.

Sokkosh, No. 2.

Oshkosh, No. 2.

Oshkosh, No. 8.

Swedish... Iowa. E. W. Heth, Grand Rapids Manufac-Richardson's No. 6 do Richardson's No. 8 do Bichardson's No. 9 do Richardson's No. 19, do turing Co., Grand Rapids. Jacob Van Putten, Jr., J. Van Putten & Co., Holland. W. S. Luther, Jas. McAdam, Ossian, Iowa.

SPECIAL MENTION.

The Acme Manufacturing Co., of Kalamazoo, which was represented at the conven-The exhibits are such that your Com- tion by Mr. R. P. Emerson, the Secretary mittee cannot give any preference, but on and Treasurer of the corporation, made an old system of making butter and would to inspire confidence in their goods. The Acme creamery was admired by every dairyman present, and several placed orders with Mr. Emerson. In an informal manner it was learned that 800 of the creameries and butter coolers are already in the [Continued on 7th page]

-		WHOLESALE PRICE CURRENT.	Import
1	cod	dvanced—Hollard herring, round herring fish, salmon, pearl barley. eclined—Kerosene oil, citron, ondara rais	Americ
1	ins,	, apricots, currants, package coffees. AXLE GREASE. AXLE GREASE. AXLE GREASE. AXLE GREASE. AXLE GREASE.	Good C Prime Choice Good I
1	Dia Mod	AXLe GREASE. AXLe GREASE. 30 Paragon	DeLan Church
-	Arc	ctic ¼ b cans 75 Arctic 5 b cans 12 00 ctic ½ b cans 1 40 BLUING.	Cap Si
air	Dry Liq Liq	y, No. 3. doz. 45 puid, 4 oz, doz. 35 puid, 8 oz. doz. 65	28 Poc 100 3 lb Sagina
e	Arc Arc	etie 4 oz. 9 gross 4 o etie 8 oz. 8 o etie 16 oz. 12 o etie 16 oz. 2 0 etie No. 1 pepper box 2 o etie No. 2 " 3 o etie No. 3 " 4 5	0 Standa 0 Ashto 0 Ashto
1.	Arc	ectic No. 2 " 30 ectic No. 3 " 45 BROOMS. BROOMS. 2 50 No. 2 Hurl 17	Higgin O Ameri Rock,
r- y	No No No	ctic No. 3 " 4 5 ctic No. 3 " 4 5 BROOMS.	Parisi Lee & Lee &
ll	Cla	ams, 1 to standards	Peppe
et	Co	ams, 1 b standards. 1 40 ams, 2 b standards. 2 65 am Chowder, 3 b. 2 20 yee Oysters, 1 b standards. 1 05 yee Oysters, 2 b standards. 1 90 yee Oysters, 2 b standards. 1 90 yee Oysters, 1 b slack filled. 75 yee Oysters, 2 b slack filled. 1 05 bbsters, 1 b pienie. 1 75 obsters, 1 b star. 2 20 obsters, 2 b star. 3 10	Peppe Catsu Catsu Horse
r	Lo Lo	ove Oysters, 2 m stack filled 175 obsters, 1 m picnic 175 obsters, 1 m star 220 obsters, 2 m star 310	Horse
n	Ma Ma Ma	Disters, 1 lb star 22 0	Oliver Olive Olive
ge ay	Ma Sa Sa	ackerel, 3 lb broiled	Olive Geler Halfo
m	Sa	Almon. 1	Halfo Salad Salad
k	Sa Sa Sa	ardines, imported \(\frac{1}{2} \s \)	½ Detro
I	SE	ardines, Russian kegs	Old C
et	A	pples, gallons, standards, Erie	Kirk
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f	I P	Peaches, standards	5 Proc 0 Proc 0 Proc 0 Bads
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er	- H	Raspberries, Black, Erie 1 3 Raspberries, Red, Erie 1 3 Strawberries, Erie 1 3 Whortleberries, McMurphy's 1 4	$ \begin{array}{c c} 5 & Han \\ 0 & Bab \\ 0 & Dish \end{array} $
ar iti le	n '	Pineappies, Sandardon 2 8 2 2 2 2 2 2 2 2	Blui B 00 Mag B 90 New B 00 Spoo
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ag	ht h-	COFFEE Green Rio	20 A 1 17 Ma 1414
t	oill	Roasted Java 23@30 Roasted Mar. 17@18 Roasted Mocha 28@30 Magnolia. @	14¼ Per 14¼ All 14¼ Cin Clo
do	is	72 foot Jute 1 25 60 foot Cotton 2	00 Gir
he		Cod, whole	1/2@5
R	Mr.	Cod, Boneless. Cod, pickled, ½ bbls. Balibut bbls. Herring ½ bbls. Herring, Scaled. Herring, Holland. Mackerel, No. 1, ½ bbls. Mackerel, No. 1, 12 b kits. Mackerel, No. 1, 12 b kits. Mackerel, No. 1, 8hore, ½ bbls. 4 Mackerel, No. 1, 8hore, kits Shad, ½ bbl. Trout, No. 1, ½ bbls. 4 Trout, No. 1, ½ bbls. 4 Trout, No. 1, ½ bbls. White, No. 1, ½ bbls. White, Family ½ bbls. White, Family ½ bbls. White, No. 1, 12 b kits. White, No. 1, 10 b kits. White, No. 1, 10 b kits. White, No. 1, 10 b kits. White, No. 1, 2 b kits. White, No. 1, 2 b kits. White, No. 1, 2 b kits. FLAVORING EXTRACTS. Lemon. Valennings' 2 oz. 9 doz. 1 00	50 13 30 18 Ma
ıs	un- ist-	Herring, Scaled Herring, Holland Mackerel, No. 1, ½ bbls. Mackerel No. 1, ½ bkits	80 50 90
	eo. res	Mackerel, No. 1, shore, ½ bbls	65 50 Gi
-	6	Trout, No. 1, ½ bbls. Trout, No. 1, 12 th kits. White, No. 1, ½ bbls.	85 00 00
-	5 4 6	White, No. 1, 10 b kits	90 1 05 nilla.
12/2	4 3 6 4	FLAVORING EXTRACTS. Lemon. Va. Jennings' 2 oz. \$\pi\$ doz.1 00 " 4 oz. 15 " 6 oz. 2 50	2 50 4 00 Os
=	32	" 8 oz. 3 50 " No. 2 Taper 1 25 " No. 4 1 1 75 " 4 pint round 4 50	1 50 M 3 00 Pi 7 50 A
	srs.	" No. 8	15 00 1 1 4 25 10 6 00 3 1
n	res-	Apples, Michigan	2@5 @7½ @8½
th	to em- in-	Apples, Dried, evap., box Cherries, dried, pitted. Citron Currants	@16 @28 @434 P
es	t in com- val-	Peaches, dried Pineapples, standards Prunes, Turkey, new	13@14 @1 70 @5½ %@10 S
	die.	Raisins, Valencias Raisins, Ondaras Raisins, Sultanas 9	@ 9% E @12¼ E @10 F @2 75 Y
re	sent	Raisins, Loose Muscatels. Raisins, London Layers. Raisins, Imperial Cabinets.	@3 25 D @3 60 @4 25 C
-		KEROSENE OIL.	1016

MOLASSES.

Choice in ½ do
Dingee's quarts glass fancy.
Dingee's pints do
American qt. in Glass.
American pt. in Glass.
C. & B. English quarts.
C. & B. English pints.

PICKLES.

Choice in barrels med.....

nported Clay, I nported Clay, I merican T. D.	No. 216, 2 No. 216, 2	gross	@	1 85	Pie . Knig Arab	hts of 0, 2x12 k Bea
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eLand's pure.	SALERA 5½ I	owight's	e Roet	.51/4	Bla 2	ot lime . nway. Seven
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Pocket, F F B Pocket			§	60 98 60	Big I Big I	Four, Four, Theac
aginaw Fine piamond C tandard Coars shton, English shton, English liggins' English merican, dair; look bushels	e , dairy, l n, dairy, d h dairy b	bu. bags 4 bu. bags ou. bags	1 3	55 80 20 80	Turk Blac Seal	key, 16 kbird of Gr
with, busicis				25 28 32 00	Dur	ham . er Coi
ee & Perrins Vee & Perrins Veicadilly, ½ pin	Vorceste	ershire, pi rshire, ½	pts.	25 00 23 00 21 00 2 75	Legs	ter [I k Pri k Rac gett & nax d Fast
Pepper Sauce, Pepper Sauce, Pepper Sauce, Pepper Sauce, 1	reen ed large green, la	ring		90 91 35 91 70 91 00	McA Nicl	llpin's
Catsup, Tomato Catsup, Tomato Horseradish, 1/2 Horseradish, pi	o, quarts pints ints			@1 35 @1 00 @1 30	Cres	k of the by Two descent
Capers, French Capers, French Olives, Queen, Olives, Queen,	surfines 16 oz bot 27 oz bot	, large ttle		@2 25 @3 50 @3 85 @6 50	Blac	ck X.ck Baing
Olive Oil, quar Olive Oil, pints Olive Oil, ½ pin Gelery Salt. Di	ts, Anton , Antoni nts, Anto urkee's	nia & Co.'s. a & Co.'s. nia & Co.'	S (S (S (@7 00 @4 00 @2 00 @ 90	Hor Hai	kinav se Sh r Lift ind D.
Parisian, ½ pin Lee & Perrins V Lee Brance, 1 Le	pints ½ pints. Durkee	's, large		@3 50 @2 20 @4 85 @2 90	McA Ace Sail	Alpin' Hig ors'
		aP. en Anne eo		@4 85 @3 30 @3 45	Red	l Star l Star l Star l Star
" "	" Masc	vior 601 th	hars	@3 45 @3 60 @4 20 @4 10	Rul	mway
Old Country, 8 Old Country, 8 Old Country, 8 Kirk's Americ do, India	0 1 lb bar an Fami	sly		$\begin{array}{c} @ 5\frac{1}{4} \\ 3 60 \\ 3 30 \end{array}$	Bos Pec Mir	s k's S ners a rning
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Proctor & Gan do. do.	able's Ive Japa Town Gold	ory n Olive n Talk en Bar		6 75 2 80 3 60 4 10	Pu Ter An	rt g n Pen nber, nn Gi ne Ki
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London Fam London Fam London Fam	ly, 60-1 lb b ly, 60-1 lb ily, 3-lb b ily, 4-lb b	blocks ars 80 fb		@ 5 @ 4 @3 @3	30 0	76 % i illett papin earlin
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Marseilles Ca A 1 Floating Matchless, 10	astile, To , 60 cake 0 cakes.	s	in box	@1 @4 @2	50 L	avine
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American c 1 th Gloss. 10 oz Gloss 3 th Gloss. 6 th Gloss, w Table Corn				@	6 7 61/2	Lemo Sour Pepp
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Nuggett, 12 b	@62 @46	Clea	a Clear r, A. We dard Cle
10	@38 @48	Extr	a Clear on Clea
ayrens, dime cutsDiamond	@45	Clea	r Quill,
rum flavor	@70	Long	DR's Clears
's Favorite	@44 @46	Long	do.
ntuckyur, 2x12	@46 @46 @46	Lone	do g Clears
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ird, 16 oz., 3x12	@46 @35	Shor	do.
Grand Rapids	@46	Ext	do. ra Long
m	@46 @48	Ext	ra Long ra Short ra Long
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Cast. in's Gold Shield. Nuggets 6 and 12 1b cads. If the Walk 6s. Twist.	@46 @51	1	
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nt	@44 @35		SMOKEI ns cure
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22c, while dairy is quoted at 14@15c packed, and 16@17c for rolls.

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ed stocks, Michigan full cream readily nds 121/2@131/2c, while skim find occasle at from 91/2@10c. -12c ♥ gal. for common sweet. erries-Firm at \$14 for bell and cherry.

for bell and bugle. Stiffer in price, on account of Lent eadily command 22c, and limed find oc-

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\$9@\$10 for new, and \$12@\$13 for bail-

Meat-7c B to for home made. s-\$3 ₱ bbl, for yellow or red. Corn-3c \$ to for choice.

oes-Somewhat firmer in consequence siderable shipments being made to rn cities.purchases being made at 25@

try-Fowls, 9@10e. Chickens, 12@13c. ys, 14c. sh-Slow sale at 1/2 7 1b

ips-25c \$\ bu.

thy-No shipping demand, and dealers aly for prospective wants, holding at or choice. GRAINS AND MILLING PRODUCTS.

at-2c lower. Lancaster, 79; Fulse, 75; Clawson, 76c. Corn-Jobbing generally at 46c in 100 bu. lots and 40@43c in carlots.

Oats-White, 85c in small lots and 30c in car-Rve-52@54c \$ bu. Barley-Brewers pay \$1.10@\$1.20 \$ cwt.

Flour-Unchanged. Fancy Patent, \$5.70 % bbl. in sacks and \$5.95 in wood. Straight, \$4.70 \$ bbl. in sacks and \$4.95 in wood. Meal-Bolted, \$1.50 ₩ cwt.

Mill Feed-Screenings, \$14 \$ ton. Bran, \$15 \$ ton. Ships, \$16 \$ ton. Middlings, \$17 \$ ton. Corn and Oats, \$23 % ton.

L.F. Cox. Committee. HOW TO JOIN THE ASSOCIATIOIN.

Article 3, of the constitution, provides that "any person of good repute may become a member of this Association on payment of the required fee," which is \$1 per year. This sum can be sent to either the President or Secretary, either of whom will forward a receipt for the same.

POINTS GLEANED AT THE CONVENTION. Charlotte will have a cheese factory next

Brooks & Smith expect to start their creamery at Nashville about May. 1.

The combined stocks of cheese on hand in New York, London and Liverpool, are exceptionally large.

Geo. Dunwell is preparing to operate the idle factory at Wayland the coming season, which is undergoing repairs.

R. C. Nash, who assisted Frank E. Pickett at the Coldspring factory, at Hilliards, last year, has re-engaged with hum for another

E. J. Savage has purchased the old cheese factory near Coopersville, and will use the interior of the structure and the cheese-mak ing apparatus in the factory he is building in Coopersville.

Geo. Sinclair, late of St. Charles, Ill., has purchased the cheese box factory of D. Cunningham & Co., at Hudsonville, and will continue the business, making a specialty of cheese box heading.

Chas. Cross, of Carson City, and C. Case, of Crystal, attended the convention for the purpose of gaining an insight into the business, with a view to starting a factory about eight miles from Carson City.

"I have seen a considerable number of herds of Holstein cattle in Illinois," said President Wiggins, after looking over Martin L. Sweet's herd of 100, "but I never saw so fine a lot of cattle, taken as a whole, as Mr. Sweet's.

W. H. Howe, formerly a cheese operator in Canada, but for the past three years male er at the Alexander Lobban factory, at Atlas has leased the Capac Cheese Co.'s factory at Capac, and will make only the best qua ty of Cheddar cheese.

In addition to the bills introduced in th House of Representatives by Messrs. Sewar Baker and C. Wellman, prohibiting the ma ufacture and sale of butterine and oleoma garine, Mr. Samuel W. Smith, of Pontia has introduced a similar bill in the Senat

F. A. Rockfellow and Edward C. Cur mings, the former a general merchant ar the latter a banker at Carson City, wh graced the convention with their present have concluded to erect a cheese factory at Stanley Rule and Level Co.'s. Carson City as soon as the weather mod-

"I make it a point to keep a dairy scrap book, said Frank E. Pickett, the Hilliard cheese maker, "and would recommend every dairyman to do the same. I clip every arti cle which meets my fancy relative to the care of cows and butter and cheese making and find that the amount of valuable infor mation I glean in this way more than com pensates me for the time and trouble in volved."

Creameries in Michigan.

The following is a partial list of th creameries in this State. other establishments of the kind, are resp fully invited to make the fact known, as desirable that a complete list appear in forthcoming report of the Michigan Da

men's Association.	
Brooks & SmithNas	shville
L. F. CoxP	ortage
J. O. Chapin & Bro	Lowel
F. Richmond	ranac
H. F. BuskirkB	radley

Manufacturers of Dairy Appliances The following is believed to be a comp list of the manufacturers of dairy applia

III this State.
Buckeye Churn Co., churnsDundee
Geo. Sinclair, cheese boxes Hudsonville
Delaware Co. Creamer Co Benton Harbon
Michigan Dairy Salt CoSaginaw
J. Van Putten & Co., butter tubs Holland
Flint Cabinet Creamery Co Flin
Acme Manufacturing Co

Under the heading, "His usual enterprise. the Grand Rapids Democrat pays TH TRADESMAN and its editor the following compliment: "THE MICHIGAN TRADESMAN, Mr. E. A. Stowe, proprietor and editor, exhibited its usual enterprise this week by coming out with a full report of the proceedings of the State Dairymen's Association. Mr. Stowe acted as Secretary of the meeting, and was largely instrumental in organizing the Association. His energy and abilities in the matter have been appreciated, and are warmly acknowledged by the Association."

Cabinet Creamery and Barrel Churn AND ALL DAIRY SUPPLIES.



To first purchaser in new locality, we will give specia terms.
The woman's three-fourths of the labor in

of the labor in butter-making; easily operated; you raise sweet cream from sweet milk; you have sweet milk to feed which trebles its value. Send for circular. Agents wanted. Address FLINT CABINET CREAMERY CO., FLINT, MICH.

March Co.	A Transfer of the State of the	
-	WHOLESALE PRICE CURRENT.	
-	Prevailing rates at Chicago are as follo	WE
1	AUGERS AND BITS.	
1	Ives', old styledis	
1	N H C Co	
1	Donglass'	
	Pierces'dis	
1	Snell's dis Cook's dis4	08
9		
1	Ionnings' imitation	08
1	BALANCES.	
	BALANCES. dis	;
		10
	Railroad \$1	19
1	Garden	, 00
j	Handdis \$ 6	08
	Cowdis	,,,,,
,	Call	
	Gong dis Door, Sargent dis	
	Door, Sargentdis	
	BOLTS.	
	Stove	
	Plowdis 3	808
	Sleigh Shoedis	000
,	Sleigh Shoedis Cast Barrel Boltsdis	
	Wrought Rarrel Rolts dis	
	Cast Barrel, brass knobsdis	
	Cast Square Springdis	
	Cast Chaindis Wrought Barrel, brass knobdis	55&
,	Wrought Square dis 5	55&
	Wrought Square	
	Wrought Bronze and Plated Knob	
•	Flush	108
	Ives' Doordis 5	50&
1		
	Backusdis	
-	Spofforddis	
	Am. Balldis	n
	BUCKETS.	
3		4
,	Well, swivel	4
•	BUTTS, CAST.	en e

1	DUCKETS.		
	Well, plain\$	4 (
	Well, swivel	4 5	50
	BUTTS, CAST.		
		60&1	10
	Cast Loose Pin, Berlin bronzeddis	608	10
	Cast Loose Joint, genuine bronzeddis	60&1	
		50&1	
	Wrought Loose Pindis		30
		60&	
		60&	9
	Wrought Loose Pin, japanned, silver		
	tippeddis	60&	5
	Wrought Tabledis		60
	Wrought Inside Blinddis	(60
	Wrought Brassdis	65&	10
	Blind, Clark'sdis	708	10
	Blind, Parker'sdis	708	10
	Blind, Shepard'sdis		70
	Spring for Screen Doors 3x2½, per gross	15	
	Spring for Screen Doors 3x3per gross	18	
	CAPS.	10	00
		m @ !	aĸ
	Ely's 1-10 per 1	пф	60
	Hick's C. F		
	G. D		35
	Musket		60
	CATRIDGES.		
	Rim Fire, U. M. C. & Winchester new list		50
	Rim Fire, United Statesdis		50
	Centra, Firedis	4	1/2

	CATRIDGES.		
	Rim Fire, U. M. C. & Winchester new list		5
	Rim Fire, United Statesdis		5
,	Central Firedis		1
9	CHISELS.		
-	Socket Firmerdis		7
	Socket Framingdis		7
t	Socket Cornerdis		7
	Socket Slicksdis		7
	Butchers' Tanged Firmerdis		4
f	Barton's Socket Firmers. dis Cold. net		2
_	Cold		
d	COMBS.		
	Curry, Lawrence'sdis	3	31
•	Hotchkissdis	2	5
v	COCKS.		
	Brass, Racking's	408	&1
s	Bibb's	498	žī
	Beer	408	v1
	Fenns'	200	6
r	COPPER.		-
	Dlanished 14 oz out to size	th	•

Planished, 14 oz cut to size	····· #	1b 34
14x52, 14x56, 14 x60		37
DRILLS	**	
Morse's Bit Stock	dis	35
Taper and Straight Shank	dis	20
Morse's Taper So5nk	dis	30
. ELBOWS.		-
Com. 4 piece, 6 in	loz ne	t \$1 00
Corrugated	dis	20&10
Adjustable	dis	1/3 & 10
EXPANSIVE BITS.		
Clar's, small, \$18 00; large, \$26 00.	dis	20
Ives', 1, \$18 00; 2, \$24 00; 3, \$30 00.	dis	25
FILES.		10
American File Association List	dis	50&10
Disston's	dis	50&10
New American		50&10
Nicholson's		50&10
Heller's		30
Heller's Horse Rasps		331/3
GALVANIZED IRON,		
Nos. 16 to 20, 22 and 24, 25 and	26, 2	7 28
List 12 13 14	1	
Discount, Juniata 45, Chare	oal 50.	
CATIONS		

- 1	Maydole & Co. Sdis	20
	Kip'sdis	25
-	Yerkes & Plumb'sdis	40
- 1	Mason's Solid Cast Steel30 c lis	
s	Blacksmith's Solid Cast Steel, Hand. 30 c 40	8:10
	HANGERS.	
y	Barn Door Kidder Mfg. Co., Wood track dis	50
-	Champion, anti-frictiondis	60
	Kidder, wood tra.kdis	40
e	HINGES.	40
		60
5,	Gate, Clark's, 1, 2, 3dis	
-	Stateper doz, net,	2 90
	Screw Hook and Strap, to 12 in. 41/2 14	
1-	and longer	31/2
		101/2
1-	Screw Hook and Eye %net	81/2
	Screw Hook and Eye 34net	71/2
	Screw Hook and Eye, %net	71/2
	Strap and Tdis 60	&10
	HOLLOW WARE.	
e		&10
		\$10
f	Granite Iron Ware	25
	HOES.	20
t-	Grub 1 \$11 00, di	e 40
is	Grub 1	3 40
19	Grub 2 11 50, di	8 40
e	Grub 3 12 00, di	S 40
	KNOPS	

0	Granite Hon white.
pect-	HOES.
becr-	Grub 1\$11 00, dis
sit is	G
51115	Grub 2 11 50, dis
the	Grub 3 12 00, dis
tile	KNOBS.
airy-	Door, mineral, jap. trimmings\$2 70, dis
	Door, porcelain, jap. trimmings 3 50, dis
	Door, porcelain, plated trim-
ville	mingslist,10 15, dis
rtage	Door, porcelain, trimmings list,11 55, dis
owell	Drawer and Shutter, porcelaindis
	Picture, H. L. Judd & Co.'sd
anac	
dley	Hemacitedis
	LOCKS-DOOR.
	Russell & Irwin Mfg. Co.'s new list dis
s.	Mallory, Wheelnr & Co.'sdis
plete	Branford'sdis
proto	Norwalk'sdis
inces	LEVELS.
	Stanley Rule and Level Co.'sdis
	MILLS.
ndee	
ville	Coffee, Parkers Co.'sdis
	Coffee, P. S. & W. Mfg. Co.'s Malleables dis
irbor	Coffee, Landers, Ferry & Clark'sdis
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THE PARTY OF		Ц
LEVELS.		i
Stantey Rule and Level Co.'sdis	65	1
MILLS.		-
Coffee, Parkers Co.'sdis	3 40	3
Coffee, P. S. & W. Mfg. Co.'s Malleables dis	40	1
Coffee, Landers, Ferry & Clark'sdis	40	ı
Coffee, Enterprisedis		5
MATTOCKS.	. ~	(
A des Ties	05-10	
Adze Eye\$16 00 dis 4	0210	
Hunt Eye\$15 00 dis 4	08210	
Hunt's\$18 50 dis 20	& 10	:
NAILS.		
Common, Bra and Fencing.		
10d to 60d % keg \$	2 30	
8d and 9 d adv	25	
6d and 7d adv	50	

1	Hunt's\$18 50 dis 20 &	1
	NAILS.	
	Common, Bra and Fencing.	
	10d to 60d	3
	8d and 9 d adv	5
	6d and 7d adv	E
	4d and 5d adv	7
۰	3d advance 1	Ė
	3d fine advance	
	Clinch nails, adv 1	
	Finishing 10d 8d 6d 4d Size—inches 3 2½ 2 1½ 2 1½	
	Adv. \$\(\phi\) keg \$1 25 1 50 1 75 2 00	
	Adv. 48 keg \$1 20 1 30 1 30 2 00	
	Steel Nails—Same price as above.	
	MOLLASSES GATES.	,
	Dicholl BI decell	Į,
	Stebbin's Genuinedis	

1	Enterprise, self-measuringdis	25
3	MAULS.	
e	Sperry & Co.'s, Post, handleddis	50
	OILERS.	1
	Zinc or tin, Chase's Patentdis	55
-	Zinc, with brass bottomdis	50
	Brass or Copperdis	40
	Reaperper gross, \$121	net
1	Olmstead's	50
1	PLANES.	
	Ohio Tool Co.'s, fancydis	15
	Sciota Benchdis	25
	Sandusky Tool Co.'s, fancy dis	15
v	Bench, first qualitydis	20
il	Stanley Rule and Level Co.'s, wood and	
ı	PANS.	
	31	MAI

Sciota Benchdis	25
Sandusky Tool Co.'s, fancy dis	15
Bench, first qualitydis	20
Stanley Rule and Level Co.'s, wood and	
PANS.	
Fry, Acmedis	50
Common, polisheddis608	1015
Dripping \$ 15 6	@7
RIVETS.	
Iron and Tinneddis	40
Copper Rivets and Bursdis 508	1015
PATENT FLANISAED IRON.	2 2 1
"A" Wood's patent planished, Nos. 24 to 27 1	01/2
"B" Wood's pat. planished, Nos. 25 to 27	9
77 1 1 1 10 11	

В	roken packs ROOFING	½c # b extra.	
IC, 14x20, c	hoice Charcos	al Terne	!
IC, 20x28, c	hoice Charco	al Terne	1
IX, 20x28, c	choice Charco	oal Terne	10

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	Sisal, ½ ln. and larger	۱
	Sisal, ½ ln. and larger	١
~	Manilla	l
:	Steel and Iron	I
	Steel and Irondis 50610	l
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0	SHEET IRON.	j
0	Com. Smooth. Com. Nos. 10 to 14	
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5	Nos. 18 to 21	l
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_	Nos .25 to 26 4 40 3 20	ı
5	Nos. 18 to 21. 4 20 3 00 Nos. 22 to 24. 4 20 3 20 Nos. 25 to 26. 4 40 3 20 No. 27. 4 60 3 40 All sheets No, 18 and lighter, over 30 inches wide not less than 2-10 eyers.	l
	All sheets No, 18 and lighter, over 50 menes	l
00	Wide not less than 2-10 carte.	l
00	SHEET ZINC.	d
	In casks of 600 bs, \$\psi\$ b	l
0	TINNER'S SOLDER.	
0	No. 1, Refined	
15	Market Half-and-half	
55	Strictly Half-and-half 16	
99	TIN PLATES.	
10	Cards for Charcoals, \$6 75.	
75	IC. 10x14. Charcoal 6 50	
ľ	TX 10x14.Charcoal	
75	IC, 12x12, Charcoal 6 50	
50	IX, 12x12, Charcoal	
55	IC, 14x20, Charcoal	
50	IX	
55	IXX, 14x20, Charcoal	
60	IXXX, 14x20, Charcool	
10	IX XXX, 14X20, Charcoal	
10	IX, 20x28, Charcoal	
30		
10	DVV 100 Plate Charcoal 10 50	
10	DXXX, 100 Plate Charcoal 12 50 Redipped Charcoal Tin Plate add 1 50 to 6 75	
10	Redipped Charcoal Tin Plate add 1 50 to 6 75	
40	rates.	
50	TRAPS.	
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et	Steel, Gamedis Oneida Community, Newhouse'sdis Oneida Community, Hawley & Norton's60	
	Oneida Community, Hawley & Norton's 60	
00	Hotchkiss' 60	
50	S, P. & W. Mfg. Co.'s00	
	Hotchkiss' 60	
10	Mouse, delusion	۱
10	WIRE.	
10	Dwight Market dis 60&16	ŧ

=0	S. P. & W. Mfg. Co.'s	ł
50	5, P. & W. Mig. 00. 5 900 39 doz	ı
	Mouse, choker	I
10	Mouse, delusion\$1 26 \$\pi\$ doz	ı
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	WIRE.	۱
10	Bright Market dis 60&16	ı
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60	Connered Market	1
5	Extra Bailing dis 55	1
	Tipped Marketdis 40	١
. 0		1
		1
5	Tinned Mattress	١
60	Coppered Spring Steeldis 40@40&10	1
60	Tinned Spring Steel	١
10	Tinned Spring Steel	1
	Plain Fence # tb 31/2	ı
10	Daybod Fonce	ł
10	Coppernew list net	ä
70	Brassnew list net	ı
00		ı
00	WIRE GOODS.	d
00	Brightdis 70&10	ı
	Screw Eyesdisa 70&10	d
65	Heali's dis 70&10	d
60		d
35	Gate Hooks and Eyesdis 70&10	
60	Wrenches.	
00	Baxter's Adjustable, nickeled	
	Baxter's Adjustable, inckeleddie 50&10	

Coe's Genuine dis Coe's Patent Agricultural, wrought, dis Coe's Patent, malleable dis MISCELLANEOUS.
MISCELLANEOUS. Global Global
LUMBER, LATH AND SHINGLES. The Newaygo Manufacturing Co, quote f. o

11	The Newaygo Manufacturing Co. quote
1/8	b. cars as follows:
	Uppers, 1 inch
10	Unners 11/ 11/2 and 2 inch 4
10	Selects 1 inch
10	Selects 11/ 11/4 and 2 inch 3
60	Fine Common, 1 inch
-	Shop. 1 inch 2
34	Fine Common, 14, 11/2 and 2 inch 3
37	No. 1 Stocks, 12 in., 12, 14 and 16 feet 1
•	No. 1 Stocks, 12 in., 18 feet 1
35	No. 1 Stocks, 12 in., 20 feet
20	No. 1 Stocks, 10 in., 12, 14 and 16 feet 1
30	No. 1 Stocks, 10 in., 18 feet
	No. 1 Stocks, 10 in., 20 feet
00	No. 1 Stocks, 8 in., 12, 14 and 16 feet 1
10	No. 1 Stocks, 8 in., 18 feet 1
10	No. 1 Stocks, 8 in., 20 feet 1
	No. 2 Stocks, 12 in., 12, 14 and 16 feet 1
20	No. 2 Stocks, 12 in., 18 feet 1
25	No. 2 Stocks, 12 in., 20 feet
	No. 2 Stocks, 10 in., 12, 14 and 16 feet 1
:10	No. 2 Stocks, 10 in., 18 feet
210	No. 2 Stocks, 10 in., 20 feet
10	No. 2 Stocks, 8 in., 12, 14 and 16 feet
10	No. 2 Stocks, 8 in., 18 feet

No. 2 Stocks, 8 In., 18 leet	
No. 2 Stecks, 8 in., 20 feet	1
Coarse Common or shipping culls, all	
widths and lengths 8 00	@
A and B Strips, 4 or 6 in	3
C Strips, 4 or 6 inch	9
C Strips, 4 or o inch	~
No. 1 Fencing, all lengths	-
No. 2 Fencing, 12, 14 and 18 feet	-
No. 2 Fencing, 16 feet	
No. 1 Fencing, 4 inch	
No. 2 Fencing, 4 inch	3
Norway C and better, 4 or 6 inch	2
Beyel Siding, 6 inch, A and B	1
Bevel Siding, 6 inch, C	
Bevel Siding, 6 inch, No. 1 Common	
Bevel Siding, 6 inch, Clear	6
Piece Stuff, 2x4 to 2x12, 12 to 16ft	
Piece Stuff, 2X4 to 2X12, 12 to 101t	
\$1 additional for each 2 feet above 16 ft.	
Dressed Flooring, 6 in., A. B	
Dressed Flooring, 6 in. C	
Dressed Flooring, 6 in., No. 1, common	
Dressed Flooring 6 in., No. 2 common	
Beaded Ceiling, 6 in. \$1 00 additional.	
Dressed Flooring, 4 in., A. B and Clear	. :
Dressed Flooring, 4 in., C	

Dressed Flooring, 4 or 5 in., No. 1 com'r	16 0
Dressed Flooring, 4 or 5 in., No. 2 com'r	14 0
Beaded Ceiling, 4 inch, \$1 00 additional.	
(XXX 18 in. Standard Shingles	3 3
XXX 18 in. Thin	
XXX 16 in	
No. 2 or 6 in. C. B 18 in. Shingles	20
No. 2 or 5 in. C. B. 16 in	1 6
Lath	
Laten	
HARDWOOD LUMBER.	
Patchin & Abbott quote car lots as fol	lows.
White Ash, Log-run, dry	. \$10 0

и	White Ash, Log-run, dry
1	Black Ash, Log-run, dry1
1	Maple, Log-run, dry
1	Maple, Nos. 1 and 2, dry, clear
	Maple, Nos. 1 and 2, clear, flooring2
	Maple, Surface, dry, clear, flooring3
	Red Oak, Log-run, dry1
H	Red Oak, No. 1 and 2, dry, clear2
	Red Oak, No. 1 and 2, clear, flooring2
	Red Oak, surface, dry, clear, flooring3
	Red Oak, No. 1, dry, clear, step plank 2
	Birch, log-run, dry2
	Birch, Nos. 1 and 2, dry, clear
	Basswood, log-run1
	Cherry, log-run2
	Cherry, Nos. 1 and 2, dry, clear
	Cherry, cull, dry1
	Water Elm, log-run, dry1
	California Redwood, No. 1, dry, clear6
	California Redwood, shingles, day, clear
	California Iteurood, Shingles, day, clear

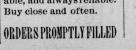
one	bun	ch covers, 26 to the weather	sq. ft.	
HIPPI	NG	BASKETS	AND	BOXES
STA	2. S		Heating the Designation of the Control of the Contr	
CRAPE	THE	MANUFACE MICHIGAN BAS A.W. WEL	KET FACT	ORY OF
YOR .	•	ST. JOSE	PH, MIC	H

SEND FOR ILLUSTRATED PRICE LIST





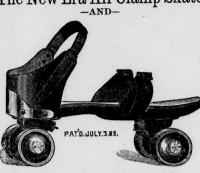
NEW GOODS. New Prices down to the whalebone. Goods always saleable, and always reliable. Buy close and often.



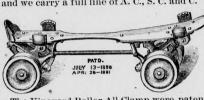
Foster, Stevens



The New Era All Clamp Skate



The New Era Rink Skate. We claim the NEW ERA to be the most economical roller skate in the world, and this in connection with their immense popularity with those who have used to me, commend them to the attention of every rink owner in the country. Our Clamp Skate is the only screw clamp made which operates all the clamps with one key at the same time.



The Vineyard Roller All Clamp were patented July 13, 1880, and April 27, 1881.

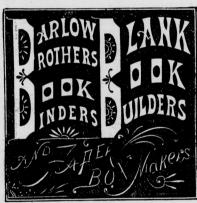
A nice line of SKATE BAGS AND BOXES carried in stock.





Skate Boxes for all clamp Skates We solicit inquiries, and should be glad to nuote prices to dealers and rink managers.

FOSTER, STEVENS & CO.



If in Need of Anything in our Line, it will pay you to get our Prices.

Barlow's Patent Manifold Shipping Books.

Send for Samples and Circular.

BROTHERS,

GRAND RAPIDS

MICH.



DUNHAM'S



THE BEST IN THE WORLD!

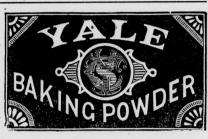
PRICE 50 CENTS.

GRAND RAPIDS, MICH.

D'OLIVEIRA'S & Co. Parisian Sauce



WKINS 80 ERR



FLAVORING EXTRACTS BAKING POWDERS,

BLUINGS, ETC.

40 and 42 South Division, St. GRAND RAPIDS,





IMPROVED

This Baking Powder makes the WHITEST. LIGHTEST and most HEALTHFUL Biscuits, Cakes, Bread, etc. TRY IT and be convinced. Prepared only by the

Arctic Manufacturing GRAND RABIDS, MICH.

Good Words Unsolicited. J. A. Slater, general dealer, Dash: "I like the paper very much."

A cigar maker from Key West writes as follows: "There are ninety-nine factories here, employing thousands of cigar makers. Every person you meet on the street is a cigar maker. They do not pay as good a price each package here as they do in the North. In the shop where I am working, they pay for a five-inch Sumatra wrapper and seed filler, hand work, \$11 per M, which is not as good as the Western price. There are hardly any strangers here, except Cubans. Board is \$6 per week.

of cheese a year. The average price paid for the imported article is a little less than eleven cents per pound. Canada sends a higher priced article than the United States, and the largest amount of any one country in comparison with previous years. The increase from the United States has been slight, and the product of Holland cannot compete with American cheese.

A grocer said in an advertisement: "My deceased bookkeeper is dead, and I want another to fill his place." There was not much of a rush for the situation.

From present indications there will be a great increase in building enterprises all over the country in the coming year.

Cheese Factories in Michigan. The following is a list of the cheese factor-

ies in this State, so far as known. Those cognizant of other factories, or of any errors in the present list, are requested to notify the Secretary of the Michigan Dairymen's Association, as it is desirable that a complete list be published in the forthcoming report of the Association:
 Glark, Baker & Co.
 Adrian

 G. B. Horton.
 Adrian

 — Gibson.
 Allegan

 Alexander Lobban (Davison)
 Atlas

 A. P. Foltz (Richfield)
 Atlas

 Theobald Rottach
 Anchorville

 J. B. Tornay
 Anchorville

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 Leopold Mayer
 Athlone

1	Leopold Mayer E. F. Preston Warren Haven & Co	Athlone
1	Warren Haven & CoB	loomingdale
1	Frank Wilmot (East) B	loomingdale
1	— Henderson	Brockway
1	Martin Wait & Sons	Butler
-	B. P. Dean	edar Springs
-	E. J. Savage	Coopersville
1	J. H. Murdaugh	Croswell
	James Skinner (Star)Dav	vison Station
	Jacob Beller	Detroit
1	Albert Wilkinson	Dundee
1	Allen Miller	Eckford
1	Davis Wildy	Elm
1	Wildy & Keaton	Elm
	W. H. Smith (Old Fairfield)	Fairfield
1	B. E. Peebles (Peebles)	Fairfield
1	Rufus Baker	Fair Haven
1	Wm. Allen	.Farmington
	Calvin Lapham	.Farmington
1	Arthur Power	Farmington
	Asa Smith	. Farmington
.	H. Goliver	Fostoria
	H. Goliver	rankenmuth
	Otto Herder (Original Fairfield). James Webb. Frank E. Pickett (Coldspring) S. M. Eggleston (Springdale)	Goodsells
	Frank E. Pickett (Coldspring)	Hilliards
I	S. M. Eggleston (Springdale)	Hilliards
۱	John Elliott	Iosco
۱	Jas. A. Dunbar (Dunbar)	Jasper
	L. A. BeldonJu	dge's Corners
	Frank E. Pickett (Coldspring). S. M. Eggleston (Springdale). K. B. Edgell (Springbrook). Ho John Elliott. Jas. A. Dunbar (Dunbar). B. Davis & Co. (Amboy). L. A. Beldon. Ju J. Joslin. L. Joslin Samuel Wygeyr. Lynn Cheese M'f'g Ags'n.	Livonia
	Samuel Wygeyr	Lowell
	Lynn Cheese M'f'g Ass'n	Lynn
	A. J. Colvin (Medina)	Medina
	P. S. Lee	New Holland
	Walter Boardwell	Olivet
ı	J. S. Griswold	Plank Road
	John Varsen	Plank Road
	Raisin Union Cheese Co	Raisin Center
	Fuller & Gleason	Richmond
1	Peter Blake	. River Bend
•	G. W. Ward	St. Charles
	J. Q. Walling	Salt River
	A. E. Johnson	Sparta Center
	Stryker & Dugan	Stark
,	Geo. Ward	Vermontville
	John Borst (Fa'rview)	Vriesland
	I. B. Smith	Wayland
L	Leighton Cheese Association	Wayland
,	M. C. Haywood & Co.	Winfield Weston
	P. C. Ostrander (Nile)	Weston
	F. B. Gurden (Riverside)	Weston
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	Discon Phage Mt Mannia (William	ma)
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MISCELLANEOUS.

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EASY WASHER

The Michigan Tradesman.

SOLIMAN SNOOKS.

A Solemn Disquisition on the Decline of Religious Interest.

CANT HOOK CORNERS, Feb. 25, 1885.

Mister Editer of Traidsman: DEAR SIR-Notwithstandin the awful roads we have been havin with snow so deep that one team cant pass another, we have been enjoyin a revival at the Corners. We have had a noted minister from Massachustts laborin hear to weeks. He is called the Rev. Mr. Ropemin, the Boy Preacher. He is not so terrible young as you mite think. He got that name about 45 years ago when he began to labor in the Lord's vineyard and it has hung to him ever sence. We have had quite a refreshin season and quite a number of converts have been made. But still, as I was tellin Sister Spriggs tother night, as I was taking her home, it seems as if something was a missen from the Word, sence the old times we used to have. She, the widder, said:

"I think so too, Bro. Snooks. Just think of the time we had the winter them Briggs gals went forrard and the two Manla boys got converted and over 40 jined the fold."

"Well, I shood remark, I gess I do remember it; what a snorter of a meetin that was, Sister Spriggs. That is the time old Ben Jones cum out and jined and quit drinkin for more than a month, you remem-

"Yes, twas that winter I do beleve. Yes, I kno twas, now, becoss I remember I was married the next spring. What a strange thing it is, Bro. Snooks, that we shood meet way up here in Michigan after all these years, haint it?"

"It is funny, for a fact. I never had no more idear of seein you up in *these woods than nothin."

"So with me, I little that when I used to see you holdin forth at the debatin society, back thar in old Injianna, that the time wood ever cum when that same good lookin feller wood—Look out! Soliman! You must be more careful, you must, really, we almost tipped over in that big snow drift then. Let me drive a while. Now Soliman, do stop, what if we shood meet somone."

"Now, really, Medda, did you think that I was-but no! it cant be, Oh! you dear little woman. I remember of thinkin what a pretty red cheeked gal you was, the night we had that dance at old Jake Stubbinses log tavern. Do you remember that night?"

"Well I shood remark that I did, why, it seems only last week to me. That was the dance whar that Sam Hooper got choaked on a chunk of dried beef at supper."

"Yes, and whar Bill Brackett had his pants burned most off of him, by the big fire in the old Dutch fire place, while we was dancin the Money Musk. Ha! ha!

"No, we was dancin the Virgina real that time, becoss I remember I was dancin with Tommy Moony and he catched his heal on a nail in the floor and fell flat as a pancake when he went to do-see-do."

"My! what times we used to have, diddent we? and I tell you what, the preachin in them days had more bizness in it in a minnet, than a hull sermon does now. Do you remember how Old Parson Slammer used to pound the pulpit and bang out fire and brimstone, Hell and Damnation? My sakes alive! how the sinners back thar by the water pail, used to shake in their shoes and tremble at his discriptions."

"I shood say so, for I cum out from the World and the Flesh under his preachin. The sermons now are too genteel and are smothed over so to not offend the welthy sinner."

"Right you are, Sister Spriggs, right you are to be sure. The old Devil has had his horns knocked off, his forked tail tucked up under his broad cloth coat, his cloven hoof concealed in a neat boot, and in fact, he is gettin to be such a respectible old chap that the sinners dont care a copper for him."

"Yes, and I tell you Bro. Snooks, that the bad place aint what it used to be. The change makes me sad and forlorn. What has become of the good old never dyin fires of Hell, whar the worm dyeth not and the wicked wail and nash ther teeth threw all etarnity?"

"Yes, and then another thing I notice a great change in. Where Hell used to be hotter, yea, ten times hotter than a furnace, they have now got it toned down so it is just nice and comfortable, speshaly durin such cold weather as we are havin now. I tell you, widder, if this thing keeps on, this the following recipe for cleaning may prove departin from the old landmarks, inside of of interest: Wipe off the dust with a piece ten year they will have Hadees turned into of chamois, then apply with a brush a good a skatin park."

"I fear so, really; Bro. Snooks, I do indeed. Then look at the way they have took wind to dry. In a short time it will peel to preachin late years about the character of; off; if all the gum should not peel off wash the Allmighty. Instead of the Bible God, it with clean water and a dry cloth. If the such as good old Parson Slammer used to first application does not have the desired preach, they have got up a new one of their effect, it should be tried again. own, that is not a wrathfull, jealous, fiery God as of old, that visits the iniquity of the fathers upon the children even to the fourth dressing for wounds in the form of what is generation and 'burned in his wrath' to- termed "wood wool." It is finely ground wards the wicked."

when I hear em going on, about God being ish white substance, capable of absorbing an so kind, lovin, gentle and mercifull and all immense quantity of liquid. that. Why, any one with haff an eye can see that aint no way to fetch sinners to the ankshus seat and then it aint Bible teachin, sled with hollow shoes that will make ice no how. We shood fear God, and how can roads. Steam and hot water are forced a sinner be made to fear such a Bein as they preach now?"

it, Soliman; but when I was over to Mount heavy logging sleighs.

Pleasant last month, I attended the Baptist church and the minister said in his sermon, that he had no doubt but that God in his infinite mercy, might save, once in a great while, a Catholic, or even a Seven Day Adventist. Did you ever?"

"No, Ile be dumsquiddled if I ever did. I shood have smiled to have seen a minister admit such a damnable doctrin as that 25 down so it aint 20 minnits long, and as for heat, well 1 don't kno, but seems to me they have got it about like wheat stubble burnin, which you kno haint so allfired hot but what a feller cood stand it even longer."

"Oh! it is just awful! Why they might as well be Infiddles and done with it. What is the use of bearin your cross to be saved, if there haint nothin to be saved from? Wont you come in, Bro. Soliman?"

"Well, bein as this conversation is so sorter interestin, I gess I will. So Ile jest hitch the hoss under that shed and give him a triffle o' hay and bide a bit."

"Now, Sister Medda," sais I, after we was red apples, a pitcher of cider, a mince pie and a pan of fride cakes on the table between us, "as you was a remarkin just afore we cum in, they mite as well be Infiddles, as to cut and change about the Word of God to suit each new fangled sect that starts

"Lands Alive! it makes me feel like gettin up and preachin myself, when I see such goins on. First one thing goes and then another. They have accomodatingly stretched out the six good old days of creation to six million years and I presume they will stretch to six hundred million, if some of them Geologer fellers asks it."

"I presume so, and they have got the flood cut down to a mud puddle and Noahs ark to a canal boat, with a few pigs and other domestic fowls in it."

"Yes, and Joshua diddent command the sun and moon to stand still the greater part of a day. Oh! no; he just simply got it refracted, whatever that means, as I heard a GRAND RAPIDS, Methodist minister preach a while ago. 1 tell you, Bro. Snooks, I am sick of such rot. I say, let us stand up squar to the truth of Scripter and not yield a peg."

"Thats whats the matter, widder, I say the same. Its no use to give in to them scientific chaps a mite, for if you give an inch, they want a thousand mile right off. I think the church made a mistake when they give up years ago to that old Coperny cuss and admited the world was round. That opened the door to all these other new fangled notions."

"Very true, but I suppose as a matter of fact the world is sorter round, so they had to do that."

"Well, well, I don't kno what we are com in to, Ime sure. Them are mighty nice apples widder. Raised em yourself, hay? How did you keep this cider so nice?"

"Why, I put haff a pound of that sally cetic acid into the barl, dont you remember, I bought it of you last fall."

sposin I call for you Sunday agin?"

"All right, I shall be pleased to tend afternoon and evenin meetin at the Corners, good bye-now Soliman! ain't you ashamed? Actin so, you are as bad as a young feller of twenty. Bye, bye."

"Just between you and me, Bro. Stowe, I always feel best when I am a little ashamed, and I had a mighty refreshin evenin with the dear widder. Now, in my opinion, widders kno so well how to make a feller happy. They kno mens failins and weak spots, and they realize the sollem fact that ries, Cider, Buckwheat Flour, Etc. n empty man is no good on earth. So they proceed to fill him up to once. Part of our little conversation I dont report, as it does not consarn the publick very overly much.

As I drove homeward over the sparklin snow, I gazed into the blue vault of Heaven, at the untold millions of stars whirlin on ther orbits threw space, and I thot to myself, what a Mistery art Thou, oh! Maker of the Universe; that Thou shoodst find time amidst Thy great employment, of runnin and guidin this vast concorse of suns and worlds, to come down to the earth long enuff to tell the Hebrews how to make bread and to attend the revival at Cant Hook Corners. With thoughts thus uplifted above the cares of this earth, I wended my way threw tne straight and narrow road, amid the piled

up snow drifts.

Yours Solemly. SOLIMAN SNOOKS, G. D., P. M. and J. P.

To merchants having marble counter tops coat of gum arabic, of about the consistency of thick mucilage, expose it to the sun or

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