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JUNIOUS E. BEAL, EDITOR AND PROPRIETOR.

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Merchant Tailoring Establishment

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Merchant Tailor, State street, Ann Arbor, Mich. You will find the best of English Worsters for Dress Suits, and all the Newest Shades and Colors in Sack, Button and Trousers in stock and samples to order.

Our long experience in Cutting enables us to give you a neat and perfect fit, and Ololes made in first-class order, at Lowest Living Prices. Call and see for yours!

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Franklin of Philadelphia 3,318,718

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VOLUME XXV.-NO. 33.

ANN ARBOR, MICHIGAN, WEDNESDAY, AUGUST 18, 1886.

WHOLE NUMBER, 1312.

SCIENTIFIC.

Explanation of the Wedge Paradox and the Falling and Projected Ball.

The general action of a wedge is well known. It forces apart surfaces between which it is driven. If, on the other hand, it has smooth sides, the reciprocal action may take place. When placed between two opposing faces that are pressed together by a constant force, and left to itself, it may, by its action, be violently expelled.

The school-boys' trick of shooting an orange shot from between his finger and thumb by compressing it violently, so that it flies out, is a good, though not very refined, illustration of this principle.

The slippery sides of the Bed help the action. Holmes also alludes to it in describing the toughness of the "settler's elm".

The wedges flew from between his lips. Their blunt ends frizled like colery tips. The reciprocal has come to be well recognized as its original.

It, however, a wedge is placed between two surfaces that constantly tend to approach each other, and the conditions are so arranged that when the wedge moves apparently the wrong way the surfaces will come together together, and the wedge will act in the paradoxical manner.

This powder is a variety. A marvel of power, strength and purity. It is more economical than the ordinary kinds, and cannot be used in any other way.

It is low cost, soft, white, and phosphoric. Sold only in cans. Royal Tinkling Powder.

From 115 Us, to 161 Us.

To the Children of the World I owe My Happiness, and My Life.

A day never passes that I do not think and talk kindly of the "Royal Tinkling Powder".

It is a marvel of power, strength and purity. It is more economical than the ordinary kinds, and cannot be used in any other way.

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COW STABLE.

Description and Illustrations of a Cheap and Convenient Stable for Farming.

A Stable for a dairy should be convenient for handling the cows, comfortable for the animals, safe against accident, and especially so arranged that incase of fire the cows could be turned out very quickly, and saved from destruction.

This is more than an illustration of a law of projection. It also illustrates the fact that different forces act on a body in respect to each other.

Thus the action of gravity is exerted to an equal extent on both ball, though one is perfectly free and the other is acted on by a strong horizontal force. It may be used as an example of a broad principle of nature which is enunciated in one of Newton's laws of force.

Tr. O'Connor Science, P.M. In Scientific Ainerhan.

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A Short Biographical History of Nearly 70 Years of the Life of K. B. Beers, Written by Himself.

January 1st, 1886.

NO. VII.

In regard to President Jackson's administration, I, with many of the older democrats, have taken pleasure in snyming, I M V a Jackson man.

I was elected a member of the legislature of the State of New York and it was my wish to be on the ground before the legislature convened that I might have a better opportunity to work on the minds of the members in regard to the lien law.

The bill was to be framed and I was pledged to get it in shape to become a law. At the coming session of the legislature, I lost no time in commencing a bill, called upon two of the best legal advisers in the city that I was acquainted with, to assist me to make sure that it should contain nothing objectionable, and after we had perfected the bill, the committee, by request, got 1000 copies printed for our use.

I went to Albany one week before the meeting of the legislature and by so doing had a good opportunity to see the members as they came, and present each with a printed bill, so that every member could examine it for himself and not have to wait for the bill ordered to be printed by the House.

We did the same by the Senate, and matters were in a good shape for getting through much sooner by so doing. On the 28th of December the "house" were called to order and after the usual preliminaries and all the different committees were made up and were ready to begin the business of the session I availed myself of the first opportunity to present my bill and by permission was allowed the house on its merits, its objects and its benefits.

I took time to go over the whole ground, and my friend, a member by the side of me, arose and called the attention of the speaker and moved that the bill be read the first time and printed and then go before the proper committee, this placed it in the way of a speedy passage.

The committee reported favorably, reOTomended its passage, and as soon as possible it was called up, read a third time and passed without a dissenting voice. It was then sent to the governor and became a law in the short space of two weeks after its billiit presented. It was considered one of the greatest measures ever gotten up for the safety of the mechanic, the artisan and the laborer. Its benefits were so quickly seen and felt by the people of the State of New York, that other states soon followed the example, and the law has become general throughout the country. I soon found it necessary to obtain leave of absence to go to New Haven to meet with the building commissioners who had the charm of the new state capital building.

Two or three years before, the legislature of Connecticut had passed an act to build a new capitol, and my uncle, Thomas Corwell and two others by the name of Walker were appointed building commissioners. The contract was first taken by a man by the name of Townsend, who after getting a large amount of material on the ground and most of the foundation had passed to give up, leaving my uncle and me to come to New Haven and take it. Now the time had come for a settlement pertaining to this and I must meet with the commissioners to arrange for the payment of several thousand dollars worth of extra work.

The building of the capitol at New Haven and a court house of stone at Fairfield, Connecticut, and the Bowery theatre which was built for M. Hainhlin the great theatre man of New York, had been a source of profit to us.

These had not been affected by the panic and the money due us was sufficient to enable us to pay our debts and save a small amount for ourselves. After returning to Albany and remaining in the legislature until some bills that I had promised to mailiit getting through were passed, I obtained leave of absence the balance of the season, as time for surveying was again coming and there was some extra work to be done in the office as we had to prepare two sets of papers, one for the outgoing and one for the incoming administration. The survey this season was along the southern coast, and during the season: the officers and men expressed a wish to have their next vacation in Cuba and wished DM to take them there. I obtained permission with the provision that the arrangement should be such as would not in any way interfere with the duties of the service. After returning from the last trip of the season I made it known to them, and the officers and crew were all so much pleased they decided to make a demonstration by getting up a dinner for me on my birthday. Among the invited guests were some leading men, James Gordon Bennett, Robert L. Stephen, Mr. Oibbs, and editors of different papers. It was at the North American hotel, and though gotten up on short notice was a very enjoyable affair.

This being over my clerks and all felt like going to work with a will in order to finish up the olicii work preparatory to taking their pleasure trip which would be about the 1st of January. At the appointed time we were ready to go. I had obtained the papers necessary, with a letter of introduction stating our business, rank, etc., to allow to the Governor-Central of Cuba.

The weather was very cold when we sailed but in about ten days we were enjoying an atmosphere that was delightful with flowers in full bloom. One of our clerks was a highly educated Spanish gentleman, so we Decided no other inter-

ference.

Having learned our object in visiting the island they seemed desirous to contribute to our enjoyment as much as possible. We found them very pleasant and ready to honor us, and show us every attention possible, inviting us to dinners and dancing parties, and in return we gave entertainments on our ship. All our party remained well and happy during our stay on the island, and returned well satisfied, arriving in New York, March 28th. The vessel was in good order and we made up our minds to start as soon as possible and not wait until the 15th of April, the usual time of starting on the first trip of the season, for I desired to get through before the hot weather would strike us, our work being on the southern coast.

We pushed the survey as fast as possible and recorded our last notes June 10th. We were about twelve days coming from Florida to New York. This being the last trip that I was to make for the term of my special office had nearly expired, the vessel was taken to the navy yard and all the hands were discharged, but most of the officers were retained until the office work was completed, then the clerks were discharged.

I retained my first assistant and secretary and recommended them to the department as suitable men to take charge of the office, and I went to Washington to close up my affairs, and notify the secretary that I was about to retire. My commission had been changed from a limited special one to an unlimited one, with permission to retire after the survey was finished, if I should choose to do so, but I was to hold myself in readiness to respond when called on.

At the end of the year, I was very satisfactory to me, I was beginning to feel the effects of some of the hardships that I had experienced and was glad to have a chance to rest.

The Drought.

Those who think the dry spell of 1886 exceeds any previous record will be interested in the following:

In the summer of 1021, 21 days in succession without rain.

In the summer of 1030, 11 days in succession without rain.

In the summer of 1057, 75 days in succession without rain.

In the summer of 1062, 80 days in succession without rain.

In the summer of 1075, 46 days in succession without rain.

In the summer of 1088, 51 days in succession without rain.

In the summer of 1105, 52 days in succession without rain.

In the summer of 1170, 40 days in succession without rain.

In the summer of 1175, 46 days in succession without rain.

In the summer of 1188, 61 days in succession without rain.

In the summer of 1200, 92 days in succession without rain.

In the summer of 1241, 72 days in succession without rain.

In the summer of 1249, 108 days in succession without rain.

In the summer of 1255, 42 days in succession without rain.

In the summer of 1262, 83 days in succession without rain.

In the summer of 1273, 80 days in succession without rain.

In the

Friends or The courier, who have business at the Probate Court, will please request Judge Hartman to visit their Printers at this office.

LOCAL.

Ann Arbor Post Office. Ann Arbor Time. Office Hours: General 7:30 A. M. to 8:00 P. M. Sunday 9:00 to 10:00 A. M.

Mails Close—GOING EAST. Detroit to Chicago, K. P. O. 6:15 a. m. Detroit to Chicago, R. P. O. 8:15 a. m. Detroit to Chicago, K. P. O. 10:30 a. m.

GOING WEST. Detroit, Jackson & Niles 8:15 a. m. Detroit to Chicago, R. P. O. 10:30 a. m. Detroit to Chicago, K. P. O. 12:30 p. m.

GOING SOUTH. South Lyon to Toledo, R. P. O. 8:40 a. m. Lockport to Toledo, R. P. O. 7:15 a. m. South Lyon to Toledo, R. P. O. 8:00 p. m.

MAILED DISTRIBUTED (Eastern). Detroit to Chicago, R. P. O. 7:45 a. m. Detroit to Chicago, R. P. O. 9:45 a. m. Detroit to Chicago, R. P. O. 11:30 a. m. Detroit to Chicago, R. P. O. 8:45 p. m.

(Western). Detroit to Chicago, R. P. O. 7:45 a. m. Detroit to Chicago, R. P. O. 9:45 a. m. Detroit to Chicago, R. P. O. 11:30 a. m. Detroit to Chicago, R. P. O. 8:45 p. m.

(Northern). South Lyon to Toledo, R. P. O. 8:30 p. m. (Southern). South Lyon to Toledo, R. P. O. 10:45 a. m. Lockport to Toledo, R. P. O. 7:15 a. m. Ann Arbor to Whitmore Lake mail closes 8:30 a. m. and is distributed 6:45 a. m. EDWARD DUFFY, P. M. Dated, January, 1886.

Oscar O. Sore's new telephone number is 12G.

Rev. Dr. Adams will occupy the pulpit of the M. E. church next Sabbath.

Rev. Dr. Steele preached in the Westminster Presbyterian church, Detroit, last Sunday.

Several of our Ann Arbor sporting men took in the Ypsilanti races last week, and enjoyed them very much.

At the recent meeting of the Catholic Mutual Benefit Association, Morgan J. O'Brien of this city was elected Grand Sentinel.

Probably the streets of Ann Arbor never presented such a gala appearance as they have this week. Everybody appears to be celebrating.

Edward Kearney, who claims to be from Texas, was arrested Sunday last for breaking into a car at Chelsea, and has been bound over for trial.

The county pioneer society will meet in Saline Sept. 1st, instead of at J. W. Wing's in Scio, the change being necessary because of Mr. Wing's serious illness.

The nominee for Congress, by all considerations ought to come from Washtenaw. The Republicans of this district cannot do better than to nominate and elect stalwart Capt. Allen.

The war with Mexico having died out, Company A are now paying their entire attention to their excursion, which takes place on the 25th. Good time to go and have sonsip.

About 500 people attended the excursion given by the Sunday Schools last Saturday. They had a glorious time and what is still more wonderful returned home at 8 o'clock p. m., on time.

A fine new stone walk is being laid by Sed. James in front of the premises of Win. C. Stevens, Mrs. Nichols, H. W. Hayes, H. Cornwall, and Mrs. Margaret Bower, on the east side of N. Ingall St.

Frank Minnis of this city, has been engaged as leader of the orchestra at the Ypsilanti opera house the coming year. Frank is a good musician and will give the people of that city some excellent music.

Welch Post, G. A. R., of this city, will attend in a body the southeastern soldiers' and sailors' reunion, on August 31st, continuing three days. The boys never fail in having a good time at these reunions.

The latest candidate for county clerk on the democratic ticket is Chas. A. Downer, of Dixboro. The Democrat is authority for the statement that Frank P. Boganilus of Ypsilanti has withdrawn from the contest.

E. G. Emblar, a prominent young attorney of Howell, who graduated from the university in 1883, and who is well known here, died Monday morning last, aged 29 years, of typhoid pneumonia. He was a favorite wherever known.

The democrats are getting badly scared over the inroads the prohibitionists are making in their ranks. That third party has pulled in all the republicans it could and is now pulling in democrats. That's right, boy? missionary work is needed in that direction.

A. I. Roy's father in the early days of Ann Arbor was offered the entire block where the post-office now stands in trade for a wagon. He said he would trade for 125.00 to boot. The owner wanted to do it but he did not have the \$25.00, so the trade fell through.

The Detroit Bicycle Club has sent out invitations to the wheelmen of this city to attend the bicycle races in that city on Saturday August 21, to be held at "Bicycle Park," on E. Alexandrine avenue, reached by Woodward avenue street cars. Chicago-Detroit ball game in the afternoon.

Rev. Dr. Ryder delivered the Union discourse at the M. E. Church last Sunday night. His subject: "Christian Hospitality," was handled in a very instructive manner, giving some timely hints as to the proper relations of "town and gown," and how happy results might be produced if a more Christian hospitality should be practiced.

The business of H. Randall on East Huron st. has so increased that he has been obliged to rent the large store adjoining him on the west. An archway will be cut through and the two stores run as one. Mr. R. says he is bound to open up one of the finest art stores in the state of Michigan. Several new features will be added to the establishment, and he will open the new place the first of November.

Mrs. Lucy J. Ellinwood, of Detroit, who is visiting Mrs. Mary E. Clark of this city, exhibited at the first Livingston county fair at Brighton, a shirt she had made for her husband which took the first premium. The shirt was made by hand and it took just 11,787 stitches by the actual count to complete it. With the sewing machines of to-day how different is woman's work. What would take days to do then only takes hours now.

Wheat at the county farm yielded 710 bushels off of 26 acres.

N. Ingalls street still has a ridge over the newly laid gas pipes running its entire length.

Rev. Dr. Adams preached an excellent discourse in the M. E. church last Sunday a. m.

Rev. Dr. Haskell will preach at the Presbyterian church next Sunday evening, at the union services.

Ann Arbor Democrat: "Capt Allen will go to Adrian with a solid delegation from hills county. Bully for the Captain."

Many of the faithful have gone to Grand Rapids to attend the democratic state convention which is being held to-day.

A special dispatch from Adrian this noon, announces that Capt. E. P. Allen will undoubtedly be nominated on the first ballot.

The Saengerfest has been the All-absorbing theme this week, and its great success has been a subject of congratulation by our citizens generally.

A. D. Covert shot a white crane at Fraire's lake, a day or two since, which he will mount and prepare for exhibition. It is said to be a fine specimen of a rare bird.

Cards are out announcing the marriage of Albert C. Schumacher and Miss Clara Andress, both of this city, at the residence of the bride's parents on Thursday, Aug. 20th.

Nearly all of the delegates to the republican congressional convention to be held in Adrian to-morrow, left to-day for that place, and the preliminaries are being arranged by J. E. Beal, who is the chairman of the Washtenaw county delegation.

The Washtenaw Post was issued this morning, containing a full and complete description of the Saengerfest. All the speeches in full, and a thorough description of the concerts. The enterprise of Mr. Liesemer is certainly commendable, and he should have a great sale of the issue.

Rev. Henry Gelstone, recently from Florida, says a more severe winter than the last has not been experienced in fifty years, and yet no such damage was done the orange groves as the northern papers tried to make out. His young grove was actually benefited by the cold, as it exterminated the scale bug, which has been a great pest in injuring the leaves of the trees.

The carpet bug, an insect improperly called a moth, as it belongs to the coleoptera, or beetle family, is a native of Europe, and is about an eighth of an inch long, black, with white and red marks. It is particularly destructive to carpets, working in the cracks of the floor, if there are any, and often cutting strips the whole length of the carpet. The best remedy, as far as known, is one which is often recommended for the better known carpet moth. It is to wet a towel, fold it in strips, lay it over the edge of the carpet on the floor, and press it thoroughly with hot flat-irons. The steam generated destroys the insects every time, and although it is a tiresome and laborious process, it is sure. Then, when the carpet is taken up, fill the crevices and cracks with putty.—Martine Enterprise.

Isn't it a Pity That we can't have more rain? That a fisherman never tells a lie? That the M. C. R. R. is attempting to buy sharp in fulfilling its part of the bridge contract? That our streets cannot be paved? That tramps cannot be put on the chain [MR here in Ann Arbor? That no public park is to be found in our beautiful city? That our "business boom" all shriveled up with the drought? That the gas company has a right (?) to impose upon our citizens by digging up our streets and leaving them in such bad shape? That our sidewalks are in such an excellent (?) condition? That we can not induce our capitalists to invest their money at home? That some of our young girls and boys are not at home earlier nights? That there are parents who think when they have supplied their children with food and clothes, that their responsibility is ended? That our "town clock" is not run by standard time? That we all could not attend the excursions and enjoy the fun? That the university buildings could not be built in an artistic manner so as to avoid comment by the many architectural (?) newspaper critics who visit the city?

Greenback Convention. The greenbackers of this county assembled in convention last Saturday p. m. for the purpose of choosing delegates to the state and congressional conventions. There were some 13 present all told. The list of delegates chosen are as follows:

State Convention: C. F. Bates, Dexter; J. M. Forsyth, Ypsilanti; Geo. E. Peters, Scio; Horatio Birch, Macomb; Wm. Paulson, Ypsilanti; Jonathan Hprague, Ann Arbor.

Congressional Convention: A. Monahan, J. M. Forsyth, Ypsilanti; N. B. Covert, Ann Arbor; Samson Parker, A. S. Alexander, Webster; Warren E. Walker, Ann Arbor.

The only conspicuous features of the convention was the endorsement of Mr. Whitman for congress providing he endorses their principles, (a thing said to have been all thoroughly arranged by a delegate from Scio who attended both conventions and pulled the wires in both satisfactorily to himself).

LETTERS FROM THE PEOPLE. THINKS THERE IS UNJUST DISCRIMINATION. FRIEND EDITOR:—I noticed in your last week's COURIER that four of our saloon-keepers were arrested for violating the Sunday law.

I have for some time observed how particular our officers are who they arrest. It is a dirty shame and an unfair dealing to arrest a certain class of parties and neglect the others. Why should one be dealt with for violating the law, and for instance not a friend of an officer, if he is guilty of the same offense or cause? (Certain other parties residing not very many miles from Main street who have also violated the law last Sunday—of which our officers are well aware of, but have as yet not been arrested, nor have there been any complaints made against them. Seemingly our officers are somewhat under obligations to these parties.)

You would confer a favor to the writer and many others who prefer to see justice in this matter to Insert this in your next week's issue. AN OBSERVER.

PERSONALS.

J. T. Jacobs has gone over to AdRul to-day. Mrs. Wm. Noble has returned from Petoskey.

E. B. Abel leaves for New York next Friday. Dr. Frank Flynn, of West Branch, is in the city.

S. C. Andrews went to Grand Rapids Friday last. Mayor Robison is in Lansing—or in Grand Rapids.

Cheed Tuttle has been home from Chicago this week. Ed. Vogel, of Chelsea is greeting old friends in town.

Judge Harriman has returned from his visit to Vermont. Guy Beckley is in the city for the first time in five years.

Th. Rayer, of Detroit is saengerfesting in Ann Arbor this week. Miss Eunita Ilayley is enjoying her vacation at St. Timms, Ont.

Mr. and Mrs. A. J. Sawyer are taking a pleasure trip up to Mackinac. Sam Langsdorf has returned from a visit to his parents in St. Louis, Mo.

Mrs. Duane Doty is visiting her mother, Mrs. Prof. Williams, on E. Ann st. C. M. Putnam, wife and daughter Bertha, are visiting at Capt. J. H. Palmer's.

Mrs. S. S. Garrigue is attending the teachers' institute at Ypsilanti, this week. Miss Mattie Border, of Toledo, Ohio, is visiting her sister, Mrs. John H. Remick.

Mrs. C. N. Falconer, of Ann st., is visiting friends in New York and Connecticut.

Fred. S. Hubbard was home from Chicago Friday on a visit to his mother and sister.

Mrs. Winters nee Woods, is visiting her mother, at Moses Seabolt's on Fourth street.

Mr. McDowell of the county farm has had another attack of sciatica but is now better.

Herman Hutzel came home from Streator, Ill., Monday night to attend the saengerfest.

Prof. Steere and family are enjoying a visit with his parents and other friends near Ionia.

C. W. Liken of the firm of J. C. Liken & Co., of Sebewaing, is stopping with Fred. H. Belser.

Will C. Carman, of East Saginaw, is visiting his sister, Mrs. Geo. II. Pond, on E. Catharine st.

Jamie Handy has gone to Schoolcraft to spend a week or two with his sister, Mrs. W. R. Clark.

Jan. J. Quarry returned from his visit to Ontario last Monday, just in time to take in the saengerfest.

Fred C. Bach and wife and Miss Emma Liken of Sebewaing, are the guests of Philip Lohr and wife.

Louis Gunther, formerly of this office, now of Grand Rapids, is in the city, accompanied by his wife.

Miss Lottie and Gertrude Rose and Birdie Uliss are camping with a party from Detroit at Portage Lake.

Volney A. Chapin, of St. Johns, is spending the week with his parents Mr. and Mrs. Chas. A. Chapin.

Misses Eva and Louise Beck of Northville are attending Saengerfest entertainments in town this week.

Mrs. R. B. Norton of Kansas, and Mrs. Geo. H. Hueston, of Northville, are the guests of Mrs. R. A. Beal.

Mrs. John West was taken very ill last week, and her many friends are anxious in regard to her recovery.

Hudson T. Morton left yesterday for Lincoln, Nebraska, to look after his landed interests in that state.

Frank Hangsterfer feels very happy over the fine decorations on our streets this week, and well he may.

Miss Mammie Yawkey, of East Saginaw, is spending the week with her friend, Miss Alice Spence, on S. Division st.

J. J. Goodyear and wife leave to-day for a pleasure trip through New York and the watering places on the Jersey coast.

Chas. H. Chick and wife of Grand Rapids, are spending the week with his aunt, Mrs. C. R. Remick, on E. Catherine st.

Evert Scott is building a cottage on the beach at Bay View, where he can take in lots of fresh air with plenty of ozone in it.

L. C. Miller, formerly of the Howell Republican, has been in the city, accompanied by his wife who comes for treatment.

Mr. and Mrs. Theo. Royer have returned from their trip up the lakes. Their daughter from Ohio with her little ones is visiting them.

W. W. Wadhams, of Joe T. Jacobs & Co., Ann Arbor, is spending his vacation visiting old friends in Dexter and vicinity.—Dexter Leader.

Fred. Henion says he did not tip over the sail-boat at Whitmore last week. The girl just fell into the water and he went in and pulled her out.

Mrs. Miltner, or Milwaukee, and Miss Hennings, of Cincinnati, the leading prima donnas of the saengerfest, are both guests at the Cook house.

Lucius Knight, who has been visiting his parents in the 3d ward for the past few weeks, returns to Kansas City, Mo., with his family next Friday.

PIAKS AND SHELLS.

Small Shot in many Pearls—Where Shells are Chiefly found—Beautiful and Expensive Goods made from them—Some Particulars About their Manufacture.

Written for the COURIER. Pearls are regarded by a large class of wealthy and refined people with nearly as much favor as diamonds. And as some of the readers of the COURIER, may not know that many pearls which pass for genuine, are produced by artificial means—or rather their formation induced in an unnatural way—a few remarks on the subject will not be out of place in our article about shells, and their manufacture; especially as the Mother of Pearl, in which the genuine pearl is chiefly found—also artificially produced—is one of the most important and valuable of the shell species.

The basis or nucleus of the genuine pearl is generally a small, hard, foreign substance that has found its way into the shell of the Mother of Pearl. Being unable to expell the intruder, a system of protection is immediately commenced by covering the last substance all over with pearly layers, thus forming a perfectly round, smooth, genuine pearl.

Knowing their tendency to completely envelope any intruding substance, the Japanese oftentimes force open the Mother of Pearl shells—usually closed very tightly, and drop small shot inside of them; most of the shot are ejected, but if only one finds a lodgment in the Mother of Pearl, it is sure of causing the formation of a pearl in the manner stated above.

Among several different varieties of the shell species, Mother of Pearl shells are deserving of first mention. They are obtained principally from Australia and the East Indies, and vary in size from 8 to 15 inches across. Besides being used largely for buttons and scarf pins, for which they are well adapted, they are extensively employed for pistol handles, table and penknife handles, opera glasses and penholders, as well as being wrought into a great variety of fancy patterns for ornamental and other purposes. Being an excellent non-conductor of heat, and taking a very high polish, pearl is also used extensively for the handles of tea-cup and urns. Piano-keys with pearl tops are very desirable too, as they will neither crack nor warp nor gather dampless like instrument keys with other materials for tops. In addition to the purposes enumerated, pearl is employed for non-conductors, and the thin scales are utilized largely in making letters for glass signs, inlaying work-boxes, stands, and other expensive furniture, and for cases and covers in buttons. Pearls can be dyed or colored any desired shade by treating it with nitrate of silver, and exposing it in the open air to the sun which brings out the color.

Thus the great utility of Mother of Pearl shells can readily be seen. And some idea of their value may be gained when it is stated that they are worth in the rough, just as they are found, from 50 to 75 cents per pound. In a store window in New York City, the writer once saw, and one of the largest of this class of shells to be found in the country; its value being fully twenty-five dollars.

It is worthy of remark in this connection, that the inside and outside of this shell is the same in quality and appearance as the genuine pearl, but being formed in layers, it does not look the same where it is cut, and is not as susceptible of receiving a high polish as the other portions of the shell, otherwise they could be employed in the manufacture of pearls.

Tahiti or black shells, mostly obtained from the Philippine Islands and the Japanese snail, found along the coast of that country, are chiefly used for making colored buttons; different dyes producing a very beautiful effect on these shells.

In New Zealand, a class of shell of a bright green color, and known as Apollonia, are found; they vary from four to twelve inches in size, and are largely used for painting and various kinds of ornamental work. Deep shells with holes in them, also called Apollonia, of which there are some 500 different species, are mostly obtained from California and along the coast of Japan, are chiefly used for buttons and inlaid work. Besides the varieties named, there are Lake Superior mussel shells, used principally for paintings.

MANUFACTURE OF OK SUGAR. The manufacture of shell goods may be briefly described as follows: The shells are usually first cut into strips from four to six inches long and from half an inch to one inch in width, and about a quarter of an inch in thickness. These strips are afterwards ground, to remove the rough portions, on rapidly revolving grind stones, about 40 inches in diameter, and then finished and polished on so-called "felt buffs"—wheels made of felt cloth, and which revolve with a velocity of from 150 to 500 revolutions per minute. Emery wheels are also employed for shaping different kinds of shell goods, in making pearl buttons the blanks are first sawed with small "tube" saws, and then turned in a lathe. Afterwards the pieces are pierced with small drills that revolve at great speed. On account of the varying quality and thickness of the strips of pearl, and its working being guided by the eye alone, only artisans possessing a high degree of skill and long experience are allowed in the industry; the material being too expensive to be unnecessarily wasted.

Gathering shells in various parts of the world, affords employment to a large number of persons, and the manufacturing of shells into many beautiful and expensive goods forms quite an important industry. It has been carried on in England for nearly two centuries, and was first started in this country about fifty years ago, yet up to this time, there are only a few establishments in the United States that carry on the business in all its branches.

The Niagara Falls. The Michigan Central enjoys peculiar advantages as a route for the Western man who travels either for business or pleasure. In connection with the New York Central and Boston & Albany, it forms the Direct and Great Central Route to Syracuse, Albany, New York and Boston, to which points it runs through cars. This is the direct route to Richfield, Clinton, Kallston and Saratoga Springs, the Adirondacks, Catskills, and the Adirondacks, and is the only route that passes by and in front of Niagara Falls, and gives the passengers satisfactory view of the falls. Trains stop at Falls View, where the express views are obtained, for the express purpose of permitting the traveler to enjoy the scene to the best advantage.

At Niagara Falls connection is made with the Rome, Watertown & Ogdensburg Railroad, running through cars to Clayton, where the steamers are taken for the Thousand Islands, Alexandria Bay and Montreal; and to Fabyan's and Portland, through the heart of the glorious White Mountain region.

With the Canadian Pacific it forms the direct route to the great Canadian cities of Toronto, Ottawa, Montreal and Quebec, and to the wonderful lake and river scenery, full of delight to the tourist, the hunter and the fisherman, so recently opened to the world.

Nearer home its own lines offer a score of delightful summering places: Diamond Lake, with its emerald lake in brilliant setting; Sister Lakes, a restful refuge for the weary within easy reach of the city; Higgins, Houghton, Osago, Mullet, Burt and Crooked Lakes, full of sport for the enthusiastic disciples of Zank Walton; Topinabee, the site of the Northern Fever Resort Association, and above and beyond all, the wonderful weird island of Mackinac, gem of the northern seas, paradise of the tourist and sportsman, washed by a crystal flood, bathed in an atmosphere of purity, and crowned with a halo of aboriginal tradition and historical association.

Altogether no road offers to the traveler more enchanting routes than those described and pictured in the beautiful little book called "In Summer Days," which O. W. Ruggles, the General Passenger and Ticket Agent, Chicago, Ill., will send to any address on receipt of a couple of stamps for postage.

BACH & ABEL'S COLUMN.

It is quite amusing occasionally to glance at the advertisements that appear during the month of July and August.

We are not surprised that the majority of the ladies think that advertisers never have much to do with the truth.

In our own behalf we have this much to say. "Whatever we advertise we have in stock and at the price advertised at."

One of the commonest ways of misleading is to say the price of a stuff is reduced from this to that when it isn't reduced at all, when it isn't worth the price you are asked to take it for.

A few unimportant styles of Satens remain—To close them out this month we will make the price 8c. Early in the season 12c.

French Satens have sold beyond all expectation. We have not kept the best styles for the last, however, those we have are quite desirable. It is time to be done with them. All we have left are now 30c.

Summer is busy time in Muslin Underwear. Stock is fine and prices low. We can divide our stock in several different classes, if that will make it clear that we have what you, and you, and you, and you, and you, a hundred different kinds of people are thinking of. Good waistcoat garments for very little money indeed, some with not an extravagant stitch in them. Some a little more showy, not loud, not vulgar. Very plain, very fine, and made with extraordinary skill and care.

The night dress in the window at \$1.00 would be cheap at \$1.25. Look at it and see if you agree with us.

50 Doz. large, wide aprons during this month 20c—Usual price 25c. Figured Organdies reduced to 12c, former price 18c.

We have more high priced ladies' Gauze underwear than we want. Our 75c. underwear now 54c.

Our \$1.00 Balbrigan underwear now 75c. Everything very cheap this month.

BACH & ABEL.

School and Church FURNITURE. OPERA HOUSE CHAIRS. WIND-MILLS.

TRIUMPH WIND-MILL. PUMPS, CYLINDERS, PIPES, ETC. TANKS MADE TO ORDER. LADDERS, PEACH BOXES, BERRY CRATES.

NO. 33 N. FOURTH STREET, ANN ARBOR, MICH.

GOLD. Look at the magnificent display of goods in the show windows of Kock & Haller. Such show windows are generally looked for in larger cities and not in a place of the size of our town. This shows how Kock & Haller take pains to give our people here all the advantages of a large city in their branch of business. Do not neglect to see them when you need furniture.

THE GREAT TOLEDO FAIR. THE Great Tri-State Fair, at Toledo, opens September 15 to 11. Premiums and Prizes amount to \$100,000 in addition to the exhibition of Live Stock, etc. There will be a dog show, the wonderful panorama, "Battle of Gettysburg," the marvelous home, Prince Imperial with a mane 100 feet long, and countless other attractions, including the Fair. The railroads carry passenger to the Fair at half rates.

DERBY HATS

ARE BOUGHT EARLY.

A. L. NOBLE,

HAS RECEIVED

THE FALL BLOCKS

And they are now being placed in Stock,

SEE THE IMMENSE HAT FOR \$2.00

Compare it with Others for \$2.50.

THE EARLY DUNLAP HAS ALSO BEEN RECEIVED!

IT IS A BEAUTY.

Come to Headquarters for Hats.

THE STAR CLOTHING HOUSE!

35 SOUTH MAIN ST.



CELEBRATED 8300 SEAMLESS WARRANTED. The best shoe yet for the money—Best American Calf. Button, Lace and Congress, all cut Seamless. Hard wear in every pair.

GOODSPEED & SONS 17 South Main street.

FRANCIS L. YORK, M.A., THE COMING SUMMER A Limited number of Pupils in PIANO.

ORCAN HARMONY, Apply by mail or at NO. 30 SOUTH INGALLS STREET.

C. H. ST. CLAIR & SONS MANUFACTURERS OF

School and Church FURNITURE. OPERA HOUSE CHAIRS. WIND-MILLS.

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WINE & WORDEN

Now Receiving a Large Stock of Carpets, Oil-Cloths, Mats, Mattings, Dress Goods, Trimmings, Etc., Etc.

NO. 20 S. MAIN ST.

HOT 1 CBL

All persons who are refurnishing rooms should bear in mind that we can furnish everything needed in Furniture, Carpets, Draperies or Shades, at very lowest prices.

No doubt you have some pieces of Furniture that need repairing. Send us your order and we will give it prompt and careful attention.

Look out for NEW CARPETS. The Finest Line ever brought to Ann Arbor, and all Bought Before the Advance in Prices.

JOHN KECK * CO.,

56, 53 -ASHD SO S. MAIN ST.

Weekly Sews Summary.
INTELLIGENCE FROM ALL TALETS.

DOMESTIC.
TUB testimony in the Anarchist trial at Chicago was closed on the 10th. Among the witnesses were ex-Lieutenant Morrill and Judge C. C. Cole, of Iowa, who gave Harry Hunter, the man who testified that he saw the bomb thrown, a good name. It was thought that the lawyers would occupy six days in speech-making. GOVERNOR IRLAND, of Texas, on the 10th issued a proclamation asking for relief for the drought sufferers.

TUKEE daughters of Henry V. Niemi, a fisherman at Fur Kockaway, N. Y., were drowned on the 10th. They were two, ten and eight years old.

CAPTAIN FRANK D. LORSON, of Gloucester, Mass., was impaled on the 10th by a sword-fish which he had harpooned, and would probably die.

THIS mercury treated 107 degrees in the shade at Dos Moines, Ia., on the 10th. One case of sun-stroke was reported.

ADVISES of the 10th from El Paso, Tex., say there was nothing new in the Cutting Improbable, both sides of the river were quiet and awaiting further developments from their respective camps, but Suite and National.

THE National Department of Agriculture reports for July an improved condition of spring wheat in Iowa and a marked retrogression in Dakota. The heaviest decline in the condition of corn is in Illinois, Wisconsin and the States west of the Mississippi. The harvest throughout Europe is estimated at ten per cent. less than last year.

A THASMAN-MARKIN boiler exploded on the 10th near Jefferson, Wis., killing five persons instantly and fatally injuring several others.

THE Comptroller of the Currency on the 10th authorized the Illinois National Bank of Springfield to begin business with \$300,000 capital.

THE Augusta (Ga.) cotton mills shut down on the 10th, locking out four thousand men. It was announced on the 11th that large numbers of Chinamen were usually entering the United States over the Mexican border.

REPORTS on the 11th from Green Bay, Wis., state that the damage done by the forest fire was greater than was at first stated. Whole counties had been burned over, and the flames only died out when there was nothing more to feed on. Hundreds of homes, churches, schools and lumber camps and millions of feet of timber were in ashes. Over a dozen persons thus far had lost their lives.

REPORTS reached San Francisco on the 11th that a rich ore belt had been discovered near Livermore, Alameda County, Cal.

BERNARD MARTIN, of Weaver, A. T., sold his ranch in July for four thousand dollars and started eastward with his wife and two children. The corpses of all four were found near Phenix on the 11th.

TUB impression was gained ground at El Paso, Tex., on the 11th that the Cutting camp would not be settled for some time.

NEAR Erie, Pa., Mrs. Kreider and her three daughters were drowned on the 11th while doing the family washing in a creek. The youngest fell into the stream, and the others were lost in the endeavor to save her.

In the vicinity of Aberdeen, D. T., a tornado on the 11th destroyed farm-houses, granaries, etc., causing heavy losses.

On the 11th a heavy rain, passing rate was the Bremen line was on the 11th selling tickets from New York to Liverpool for twelve dollars.

THE first rain since June fell at Springfield, Ill., on the 11th. In other portions of the State the thermometer ranged from 110 to 114 degrees in the shade.

A STORM of rain and hail a few days ago swept away all traces of the embryo of a cyclone from the State of New York.

A FIRE on the 12th at Hastings, Mich., destroyed seventeen buildings in the business portion of the city, passing rate was the Bremen line was on the 11th selling tickets from New York to Liverpool for twelve dollars.

THE acting Secretary of the Treasury on the 12th called \$100,000,000 in three per cent bonds, interest to cease September 31.

A FIERCE gale passed over Central and Southwestern Iowa on the 12th, accompanied by heavy rains. Much damage was done by the rushing winds.

MICHAEL MITZ was hanged on the 12th at Uniontown, Pa., for the murder of a brother Italian named Cassette.

AT the close of June the number of silver dollars coined since reauthorization was 237,728,280. The National Bankers' Association at its session in Boston on the 12th adopted resolutions urging all civil and political bodies to make urgent efforts for a suspension of the coinage of silver dollars.

Logan C. Murray, of New York, was elected president for the ensuing year.

MRS. SAHAI J. ROBINSON, of Boston, was arrested on the 12th charged with poisoning her husband, her three children and seven other people of her family. The insurance on their lives was said to have been the actuating motive.

In July, 1836, the total value of the exports of domestic breadstuffs from the United States was \$10,765,375. In 1885, \$87,811,181; several months ended July 31, 1888, \$51,432,215; lama period in 1883, \$35,474,313.

THE schooner Orion capsized in Boston harbor on the 12th, with four persons were drowned. A few minutes later the sloop Frolic sunk, and six of her crew were drowned.

TWENTY stores and offices at Kosciusko, Mich., were destroyed by fire on the 12th.

REV. F. M. BANDY and John Davis, of Graysville, Tenn., the latter a prominent farmer, had a difficulty on the 12th over the attentions of Davis to Bandy's daughter. The young lady's brother joined in the affray, during which knives were used, and all three were killed.

THE forest fires in Northern Wisconsin were dying out on the 12th, material on which to feed having been exhausted.

THE forest fires in Northern Wisconsin were dying out on the 12th, material on which to feed having been exhausted.

Public meetings were being held in various parts of the State to provide immediate relief for the sufferers in the way of food and clothing.

A OALE on the 13th at Edina, Ma., overthrew a circus tent, with the performance was being given. The canvas and poles fell upon the audience and many persons were injured fatally and seriously.

A FIRE on the 13th at Folsom, Cal., destroyed twenty-six of the principal business houses, causing a loss of \$150,000.

It was reported on the 13th to Governor Hubbard, of Minnesota, that 102 families in the vicinity of Marshall were homeless from the effects of the July storms.

Baldy odors from Spice Islands, Calm by the tropic breeze, SOZODON'S Eucalypti Fragrance Cannot be surpassed by these. Teeth will whiten and You will use it if you're wise.

One Great Merit of Unit Beautifier of the teeth, SOZODON, is that its effect upon the mouth is refreshing, while as a means of cleansing the teeth, and improving the breath, it stands alone.

Thomir Wilkibon, of Adrian, has undoubtedly the longest and heaviest beard of any man in the country. He contemplates appearing, during the dramatic season, at some of the leading music-halls of the country, and Clinton Williams, who is acting as his booking agent, has already received many flattering offers for his services. Mr. Wilkibon's beard is but six years old, and although he is taller than the average man it trails on the ground.—Daily Tithener.

Rich, Prairie Manged, and Seratches of every kind cured in thirty minutes by Woodfords Sanitary Soidin. Use no other. This never fails. Sold by H. J. Brown, druggist, Ann Arbor. No. 1288-1300

WHO IS UNACQUAINTED WITH THE GEOGRAPHY OF THIS COUNTRY, WILL SEE BY EXAMINING THIS MAP THAT THE GREAT ROCK ISLAND ROUTE IS THE MOST DIRECT AND SAFE ROUTE TO THE GREAT WESTERN COUNTRY.

By reason of its central position, close relation to principal lines East of Chicago and continuous lines at terminal points West, Northwest and Southwest, the Great Rock Island Route is the most direct and safe route to the Great Western Country.

The Rock Island main line is the shortest route between the Atlantic and Pacific, the Gulf of Mexico and the Northwest, the Great Lakes and the West, the Mississippi and the Northwest, the Gulf of Mexico and the Northwest, the Great Lakes and the West, the Mississippi and the Northwest.

Guarantees Speed, Comfort and Safety to those who travel over it. It is the most direct and safe route to the Great Western Country.

Is the direct, favorite line between Chicago and Minneapolis and St. Paul. It is the most direct and safe route to the Great Western Country.

The famous Albert Lea Route is the most direct and safe route to the Great Western Country.

The Great Rock Island Route is the most direct and safe route to the Great Western Country.

TUK Democrats of the Fourteenth Missouri district, after balloting six hundred and forty-one times, have nominated James Walker for Congressman. In the Second district, H. Maunson is the Democratic nominee.

THE Prohibitionists of the Thirteenth Illinois district on the 11th nominated James D. Wickiser for Congressman.

WILLIAM J. LANKERS, was on the 11th appointed by the President to be Associate Justice of the Supreme Court of Washington Territory.

A. M. KILLEY was on the 12th appointed to represent the United States at Cairo as a member of the courts created by treaty for the trial of mixed civil cases in which foreigners are involved.

ROBERT L. TAYLOR was nominated for Governor upon the fifteenth ballot in the 18th Democratic State convention at Nashville on the 12th. Mr. Taylor is a brother of the Republican candidate for Governor.

THE Texas Democrats met at Galveston on the 7th and nominated Uemoral L. C. Ross for Governor.

H. C. STEVENSON, the father of the railroad ticket brokerage business in the United States, died on the 12th in Pittsburgh.

THE following Congressional nominations were made on the 11th: Ohio, Sixth district, William D. Hill (Dem.); Seventh, Third district, W. C. Dutton (Dem.); North Carolina, First district, Louis C. Latham (Dem.); South Carolina, Sixth district, Goor'o W. Dargan (Dem.); re-nominated, Alabama, Third district, W. C. Dutton (Dem.); re-nominated, Michigan, Ninth district, Byron M. Cutcheon (Rep.); re-nominated, Georgia, Third district, C. F. Crisp (Dem.); Indiana, Twelfth district, Henry C. Stanley (Rep.).

CENSUS TAKER NILSSON was married on the 13th in Paris to Count de Casa Miranda, of Spain.

THE Knights of Labor on the 13th nominated J. C. Campbell for Congressman in the Seventh Iowa district.

AT Rarnia, Can., engraved plates, points, etc., used in raising figures on the 9th in a house occupied by Joseph and Justice Wetheroll. The western part of Ontario was flooded by the notes, and many people had been swindled.

THIRTIETH was further rioting at Belfast, Ireland, on the 10th, several persons being killed.

LABORERS were killed on the 11th at New Ross, Ireland, by the collapse of a railway tunnel.

THE cholera returns from Italy on the 12th were: Barletta, 11 new cases, 50 deaths; Padua, 10 new cases, 3 deaths; Bologna, 8 new cases, 2 deaths; Bologna, 6 new cases, 8 deaths; Ravenna, 21 new cases, 11 deaths; elsewhere, 58 new cases and 12 deaths.

ANTI-JEWISH riots on the 12th in Kioft, Russia, the houses of many Hebrews were wrecked.

A riot providing for local self-government throughout Great Britain and Ireland was held on the 11th in preparation by Lord Randolph Churchill.

THE Hungarian town of Sillein was destroyed by fire on the 12th. Four hundred houses were burned, and 10,000 thousand persons were made homeless.

THERE was no change in the Cutting demand for the surrender of the prisoner was made in the office of Mexico's Secretary of State.

A DEFICIT of \$1,500,000 in the funds in charge of the Public Debt Board of Havana, Cuba, was unearthed on the 12th.

ON the 13th 151 new cases of cholera and 63 deaths were reported at Barletta; 30 new cases and 9 deaths at Ravenna; 61 new cases and 30 deaths elsewhere in Italy, and at Trieste 17 cases and 5 deaths.

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Pat. Oct. 30th, 1883.

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