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Report of Condition May 17, 1890. RESOURCES.

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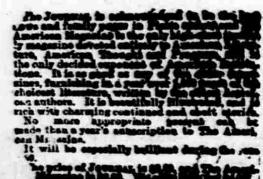
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## THE WORLD'S DOINGS.

in Condensed Form.

LAND OFFICE FIGURES.

ANNUAL REPORT OF LAND COM-

The Pending Entries Have Been Largely Reduced During the Year-Amount of Lands Given Which Are Still Untaken In Several Northwestern States.

MISSIONER CARTER.

during the fiscal year ending June 30, 1651, has been made public. The patents issued during the years 1890 and 1891 were: 2reemption, 149,515; homestead, 75,545; timber culture, 5,346; military bounty land, 723; agricultural college scrip, 32; miscellaneous ocrtp, 146; mineral, 1.119; coal, 450. The increase of agricultural patents over the two previous years was 184,164; the increase f mineral patents \$37, and of coal patents 282. The number of acres of public lands disposed of during the year shows that the cash sales amounted to 2.143,090 acres. Of the miscellaneous entries (not cash) 5,040,-393 acres were homestead and 969,006 were entered under the timber culture law. The railroad selections amounted to 1.857,572 acres; state selections, 174.434 acres; Indian allotments, 117,485, and original swamp, 23,165 acres. Patents to land grants during the year were 3,088,679 acres, an increase over the previous year of 2.724,817. Surveys were adopted during the year on acres. Commissioner Carter makes a strong plea for the irrigation of the arid lands. Approvals during the year under the different grants to the several states for educational purposes and under the saline grant, having the effect of patents, embraced an area of 756,172 acres. Of this South Dakota received approvals for 44,382 and Minnesota 30.181 acres. The increase in approvals for educational purposes during the year was 216,393 acres. The largest

Gladstone's Foreign Policy. Gladstone's coming deliverance at the his own would be if he should again be of the church. The pope, it is said, will replaced in power. If the expectation proves | quire this, whatever the result. correct Gladstone will make the meeting memorable by a statement of foreign policy committing the liberals to a line of action directly opposed to that of Lord Salisbury. Morley has already declared that the next Gladstone administration will accomplish the evacuation of Egypt with the least pos-

Convicted the Wrong Tramp. Jacob Brown has confessed to the chief fight ensued. Brown killed his assailant and fled. Gray, another tramp, was ar- on the western movement of Russian troops

Allerton and Naucy Hanks. The race between Allerton and Nancy Hanks, at the Lexington, Ky., meeting next | selves." month is now a certainty. Both Williams and Doble have accepted the association's offer of \$8,000 for the first horse. The race

will be trotted either October 13 or 14. A commercial treaty now being negotiated between Russia and Persia will provide for a relegation of the duty of representing the two countries abroad to a single representative. This probably implies Russian protectorate over Persia.

One of the most dieastrous fires that has risited Chicago for some time occurred in a tenement house at 549 and 551 Sedgwick street. Although the blaze lasted but fifty minutes, the loss of life only made the trifling damage to property stand out more insignificantly. Six people are dead and nore will undoubtedly die.

Terrific fires are raging in Minnesota. It s estimated that the loss to timber about Pine City has already reached \$200,000. and this is being increased at the rate of \$700 every hour. Five farmers fighting the flames several miles from Pine City were surrounded by fire and burned to death.

Gales in England and Scotland. The northeast gales which have been ausing so much damage in England and ing down. The latest news received as to the damage done is that a number of coastwise vessels have been driven ashore and ost between Type and Forth.

Deacon White Falls Down. The announcement of the assignment and suspension of S. V. White & Co., of New York and Chicago, was made on the stock exchanges. White says the failure is due to long speculation in corn and not in stocks. The liabilities of the firm are very

The Flag Fleats From One Building. world's fair has progressed so far that the first of the trusses to support the immense position and the stars and stripes given to the breeze from its top in honor of the

Fatal Bridge Catastrophe. During the celebration of the feast of anterns at the Jokotecho, Akita, perfecture, Japan, a bridge fell, owing to the pressure of the throng, and over 100 persons were precipitated into the water, twenty being injured and several killed.

Allerton Will Meet Nelson. C. W. Williams, owner of the trotting stallion Allerton, has accepted Dan J. Leathers' proposition to match Allerton and Nelson for a purse of \$10,000, the winner to take the whole amount, the race to occur October 6 at Grand Rapids.

McKinley and Campbell. The chairmen of the republican and democratic state committees of Ohio have arranged a joint debate between Maj. McKinley and Gov. Campbell at Ada, October &. Campbell has the opening and closing of

Austria's Peace Force Increased At a conference of the Austrian cabinet. Emperor Francis Joseph presiding, it has seen decided to increase the military budget 6.000,000 florins and to strengthen the peace effective force of the Austrian em-

Monte Carlo Outdone. in the shade by Ostend, where the rage for 

few days ago with enormous gains, and he is but one of the several who have had as-Happenings of a Week tonishing luck this season, to the severe loss of the bank. The play begins at 11 o'clock in the morning and generally continues all day, some even keeping at it all night, for the room is open at all hours.

> amounting to 3,000 francs for the season. SUICIDE OF BALMACEDA.

The founders and managers of the club are

Chili's Ex-President Despairing of Escape Shoots Himself at Santiago. President Balmaceda, of Chili, shot him elf through the temple in his room at the Argentine legation, Santiago, on Saturthe operations of the general land office day morning, September 19. The story became known in Valparaiso yesterday afternoon and created the greatest excitement. That evening the city was brilliantly illuminated and on every hand was heard the sounds of rejoicing. It now seems that the story that Balmaceda escaped on the United States steamer San Francisco was erroncous. Instead be left Santiago August 29 in the hope of escaping from the country. Finding every avenue closed he returned to the city September 2 and went direct to the Argentine legation. Since then he has been extremely nervous. No one save the Argentine minister and one man devoted to Balmaceda was permitted to see him. About 8 o'clock Saturday morning pistol shots were heard in Balmaceda's room, and Senor Uriburia rushing in found that the ex-president had just put a buffet into his brain. The junta was notified and a committee immediately went to the house and viewed the body. As the news spread crowds of people gathered around the Ar-8.006,004 acres. The vacant public lands in gentine legation. They cheered, hooted the states and territories are 579,664.583 and nearly went into a frenzy over the death of their late enemy. Above all were heard shouts congratulating him that in taking his own life he had escaped a worse fate from the hands of the junta.

THE CATHOLIC CONGRESS.

it Will Probably Declare in Favor of the Pope's Temporal Power. Although the Italian government ha withdrawn its opposition to the holding of a Catholic congress in Rome, it is said that amount of surveys adopted during the year | the authorities will attempt to rigidly preis in South Dakota, 3.346,639 acres. At the | vent any formal expression of opinion adclose of the year there were found to be verse to the unity of the Italian kingdom against 298,064 at the close of the previous pope. Italy has so strongly protested year, a decrease of 125,006. Rallroad selec- against such utterances in Germany, Spain tions amounting to 28,846,577 acres were and other countries that she cannot with pending on July 1, 1891, which is a decrease any consistency permit similar language in of 930,078 from the preceding year. The the Italian capital. At first the government total number of acres of vacant lands in the | was determined not to allow the congress various states and territories is 579,664.683 to be held in Rome, but on second thought acres. Of these Iowa has 6,000; Minnesota, it was concluded that it would be better for 6,849,975: Nebraska, 11.469,430; South Da- Italian interests to have the meeting in kota, 14,085,394, and Wisconsin, 1,003,133. Rome than in Vienna. Paris or Brussels, as Italy if the congress should be within Italian jurisdiction. Notwithstanding Italian liberal federation meeting is invested with authority, however, the congress is expectnouncement that he intends to review Lord of the restoration of the papal sovereignty Salisbury's foreign policy and declare what over a portion, at least, of the former states

THE WAR IN EUROPE.

Conflict Is Coming. sa reports a steady movement of Russian troops westward. He says that temporary barrack accommodations have been provided in all military centers between there | America. and Warsaw. Military officials are reticent of police at Minneapolis that he committed and the local press is forbidden to allude murder at Centralia some years ago for to the matter. The admiralty has ordered which a man named Gray is now serving a | that all larger vessels of the Russian Steam life term in the Chester, Ill., penitentiary. Navigation and Trading company as well as Brown, who was tramping through the the volunteer fleet be equipped with powercountry, got into a box car to sleep. He erful davits like men-of-war. These prepstumbled over a man in the dark and a arations have given rise to many war rumors. The Berlin Kreutzeitung in warning says: "The Russian cavalry depots on the German frontier are three times as strong as formerly, and new depots are being forwarded. Such measures speak for them-

BLAINE WANTS THE MOLE.

The Secretary Has a Line Out for That Haytian Bay. It is stated that Secretary Blaine expects many dangers and will soon be forced to fore except in Oklahoma two years ago. fight for its life. When this fight comes off it is understood that Mr. Blaine intends to which, for the support of the United States. the coveted harbor will be ceded. This is practically what was done at the time of the last revolution, but Hippolyte went back on his promise. There is reason to believe that the next agreement will not be broken so easily, for Admiral Gherardi and the North Atlantic squadron will be sent to Haytian waters as soon as the trouble begins, and if the coaling station is ceded it

will be occupied at once. RETALIATION FROM MEXICO.

Diaz Goes Against Blaine in Tariff Game. Carload after carload of stock is rush ing through San Antonio for Mexico. Hogs from Kansas City and other points are espers is to get the animals into Mexico before the new tariff goes into operation, November 1. The law so materially raised the tariff on American meats that northern sellers will be practically barred out. It is understood that the duties were raised on the personal solicitation of President Diaz in order that the Mexican reciprocity commission may have a vantage ground in dealing with the United States.

A terrible wreck occurred on the Pittsburg & Western railroad near Newcastle, down a new track, and while they were on the train throwing off the dirt a freight the wreck. The bodies of six Italian laborers were taken from the wreck, and with the killing of the engineer this swells the number of the dead to seven. At least twenty men were injured, several of whom cannot recover.

Will Be Sold October 23. Judge Dundy has fixed another date. Oct. 23, for the sale of the Pacific Short Line. In everything except the date of sale the order is precisely similar to the previous

THE MARKETS. SIOUX CITY WEEAT... CATTLE-Common to prime ..... \$3.00 6 5.00 NEW YORK PRODUCE.

doner, whose ventures in a single day have amounted to 600,000 france, left Ostend a A VERY SMALL SURPLUS

Off of Customs Reduced the Cash Sur-

plus in the United States Treasury to

SECRETARY FOSTER HAD TO HUSTLE FOR CASH. The Redemption of Bonds and Failing

not Belgians, but Parisians, and they pay a royalty to the municipality of Ostend Less than \$1,000,000 in currency available for business in the vaults of the treasury at Washington was the condition that confronted the treasury officials. In the subtreasury at New York there is \$5,000,000 in currency and in the various sub-treasuries \$4,500,000 more, making in all \$10,500,000 in currency. There is now in course of re-

demption \$2,500,000 in currency, which

makes a grand total of \$13,000,(6) in cur-

rency. The net balance, as shown by the treasury statement, is \$45,000,000. Including this is \$14,000,000 in bank depositories and \$17,000,000 in subsidiary silver, leaving the available balance stated between \$13,-000,000 and \$14,000,000. This statement does not include \$100,000,000 per cent. gold reserve which Secretary Foster has stated at various times he could use in case of necessity, nor does it include the gold and silver coin in the treasury. It includes only the currency available for current demands. It is stated on good authority that during the present week the treasury officials have had to "hustle" to get together sufficient currency to meet the demands of drafts. This "cramp" for currency was brought about by the redemption of the 4% per cent. bonds (more than \$16,000,000 of which have been redeemed during the present month) and also by the falling off of custom receipts, which show a decrease of about 30 per cent, during the current month, over the same last year. The pension payments have also figured in reducing the available currency, \$7,500,000 having been paid out on this account. There now remains but \$9,000,000 of 41/2 per cent. bonds to be either redeemed or coninued, and when these are disposed of it is thought the available currency in the

treasury will rapidly increase. IS GOLD COMING BACK.

interviews With European Financi Upon the Flow of Gold. A representative of the associated prese had interviews with Rothschilds, Speyers, Lazard Bros. and other bankers, and they clothes all agree in their statements that further not bullion, but securities and exports, eclared, are making preparations to face a stiver crisis, which is now inevitable, by making gold purchases in Europe. This crisis, he said, would be the result of the heavy issue of silver certificates in

THE RUSH FOR FARMS.

Newly Ceded Lands in the Indian Terri tory Grabbed by Thousands. Simultaneous with the arrival of the hour of noon Tuesday the homeseekers who had gathered on the border on the newly ceded Iudian lands in the territory, a headlong rush over the line the quarter sections upon which trains were due. their eyes had been feasting for some days and others for weeks and months. The rush was a mad one, and was made solely from the fact that the number of homeseekers greatly exceeded the number of uarter sections available for settlement settlers, allowing 160 acres for each. There were on the border waiting to claim the within the next year to acquire St. Nicholas available land fully 15,000 people, so there Mole, Hayti, as a naval station. All the were three people for every section. It was advices from that land of revolutions show no wonder then that the rush was a mad that Hippolyte's government is beset with one. Like scenes were never witnessed be-

A RICH HAUL. make terms with one side or the other, by Robbers Get a Rich Haul from the London and Westminster Bank. The banking circles of the world have just been startled by the announcement of an having over fifteen branch bouses in Lonto the London and Westminister bank. The thief or thieves must have cleverly watched for the oppportunity to accomplish the bank officials were busily engaged in another apartment. It is currently reported that the amount stolen is not less pecially numerous. The object of the ship- | than \$750,000, and that it may amount to as much as \$1,250,000.

ARE THEY TRUSTS? War to Be Regun on All the Railroad Traffic Associations.

It is reported that Special Agent Kretschner, of the inter-state commerce commission, has begun a crusade on railroad traffic organizations, with a view to having them onounced illegal by a court. The first blow, it is said, will be struck at the trans-Missouri association, and the federal grand jury at Topeka will be asked to indict grain and would be a blow at the industries Chairman Smith and every traffic manager Pa. At that point a work train with a in the association. The contention of from the fact that the board of transporta-Kretschner is that combinations for the regulation of railroad traffic are in the nature of trusts and in contravention of train crashed into it, piling the cars and the inter-state commerce act. He will also engines up in a mass, and the steam and try to prove that the pooling of traffic is boiling water poured over those caught in not the least of the offenses committed. The Hostile Chilcats.

The intelligence has been received from the upper Yukon, Alaska, that a band of hostile : Chilcats attacked a small party of two whites and five Indians and everal were killed. It is thought at Portland. Ore., that the party is Ewing Earlscliff, of Missouri; Herbert Earlscliff, young Englishman, and five Indians. All were well armed. No particulars could be earned from the Indians who brought the

Jay Gould Helps Deacon White. The liabilities of S. V. White & Co., the New York commission firm recently failed. are now placed at \$3,000,000, with comparatively small assets. It is said that Jay Gould has insisted upon putting up whatever finances the house lacks, and the firm will resume business within a week or ten days. Strange Cattle Malady. A peculiar disease is playing havoc with

the cattle near Huntington. Pa. Already

hundreds of cattle have perished. When

egs seem unable to bear the weight of its body. It is believed the disease is a form of he Texas spienic fever. Indians in Christian Work. One hundred and seventy-six delegates attended the Sioux Indian Y. M. C. A. convention at the Yankton agency lust week. A Sioux Indian W. C. T. U. convention is

SPOILED A LITTLE GAME tent Plerre People Found in Gaming Room:

Pierre is enjoying a full-fledged baccarat scandal, with which is connected the names of a number of prominent citizens and county officers. For some days past rumors have been abroad of high games being played, and that prominent merchants who are late converts to the prince's game were losing heavily. The game was being conducted in a saloon not far from the business center, the proprietor of which goes under the sobriquet of "Cowboy Tom." The police were informed that a big game was in progress at Tom's place of business, and accordingly the chief of police made a raid on the gang and gathered in the players. One was a county official, another a city officer, then a doctor, two merchants and an englneer. The culprits made all sorts of threats and even went so far as to make affidavits implicating nearly all the city officers, the chief of police, members of the council and others, and threatened to have them all arrested unless the case against those caught at the game was quashed. The case was, however, called and tried to a jury. The players were all acquitted on their own estimony, they saying that they were only indulging in a social game of cards. The police say that there was money and ounters on the table when the officers interrupted the game. The parties are taking steps to have the city officers prosecuted on a similar charge, and also with conniving at the violating of the prohibition law, and nteresting developments are promised SOUTH DAKOTA'S SHOWING.

Total Value of This Year's Farm Products Not Less Than \$100,000,000. Besides the estimated yield of 50,(6),000 oushels of wheat in South Dakota, worth at present prices \$40,000,000, it is pretty accurately estimated that, after deducting losses by frost, there will be 30,000,000 bushels of orn, worth \$12,000,000; 60,000,000 bushels of oats, worth \$15,000,000, and 6.000,(0) bushels of flax, worth \$5,500,000, making a grand total of 146,008,000 bushels, with a present value of \$70,000,000. By including barley, rye, potatoes, hay, cattle, hogs, butter and eggs, the total would not be less than \$100,000,000, which isn't bad for a state not two years old, and which only one year ago, by authority of our governor,

Making a Test of the Law. American grain. Griffin ridiculed the constitutionally forbid any common associestimate. He said that before 10,000,000 ation or calling not injurious or offense to of any stream in the world. pounds in bullion could be sent to America all Individuals and confine it to certain both the Bank of England and the Bank of monopolies, corporations or classes of peo-France would raise their rates of discount | ple? This point is raised by demurrer and and check the drain. According to Griffin will be argued. No matter which side wins the case will be appealed to the supreme will go to America to pay for grain. Un- court and by arrangement it will be decided doubtedly, he said, there will be a heavy at the October term. The legislature last drain of gold for several months to come, winter passed a law confining all banking but the payments for grain will not be the | business to corporations and prohibiting it sole cause for such drain. An important absolutely to individuals. R. J. Gamble factor in the financial situation is the silver | appeared for the state, and Messrs. Tripp. uestion. The stable American houses, he | Campbell and French for the defendant.

It has transpired that a villainous at tempt was made to wreck the train containing several officers of the St. Paul road that went west from Elk Point toward Mitchell. It was given out that the train would go north toward Sioux Falls. During several spikes pulled and the rails pried to the left and spiked so that the train would undoubtedly have left the track and gone the Sioux river. A terrible disaster was no doubt averted by the section foreman discovering this bold attempt at wrecking a the coveted country and train and repairing the road before any

RATES REMAIN AS BEFORE.

The Freight Schedules of Nebraska Unchanged by the Board of Transport-The Nebraska state board of transports freight schedules. Their report is voluminous and contains statistical tables in support of their position. In conclusion they declare that the local rate, which means

the rate between station and station within pared with the through rates and is of no uses is shipped to distributing points such as Omaha, Lincoln, Hastings, Beatrice and out over the state on what is known as distributive or jobbers' rates, which are much important bank robbery. The institution lower than the local rates now in force: suffering is the London and Westminister and that all of his grain goes out of the bank, limited, an important establishment state on a through rate, which at the present time is a far better rate than Iowa endon. The money stolen consisted of a large joys. As an example they cite the fact that parcel of bills remitted from country banks at a recent sitting of the interstate commerce commission at the city of Omaha the Iowa farmers made complaint to that body and produced absolute proof that Nebraska the robbery. The apartment was easy of has better market rates for its products access from the street and the parcel of than Iowa. They cite the rate on corn bills is supposed to have been stolen while from Creston, Ia., 396 miles from Chicago, as compared with the rate from Venango, Neb., 872 miles from Chicago. Creston, 17 cents per 100 pounds for corn, and from Venango 25 cents per 100 pounds, making 17 cents per 100 pounds for a 396-mile haul for the Iowa shipper, and an additional 8 cents for an additional haul of 476 miles for the Nebraska producer. They further find that the railroads are not in a condition to stand, nor does their net earnings, figured on a basis of cost of \$30,000 per mile, and not on what they claim they cost, justify any cut in local rates of Nebraska at the present time. And further, that a reducion in the local rates in Nebraska would increase the through rates to market for of the state. This last finding is asserted per cent., and yet the price to the consumer was not lowered nar the price at the mines

raised, showing that the through rates must Farming Pays in Nebraska. Joseph Swartz, of West Blue township. lays a Fremont exchange, came to that county about twelve years ago with his family. His all at that time consisting of a wagon and team and household goods, altogether amounted to not over \$500. He began farming, and by industry and economy, guided by good judgment, today is worth \$20,000 and has made it out of the soil which he tilled. He recently sold 3,000 bushels of old corn for which he received 50 cents a bushel, and this year has raised on his farm 200 acres of oats which averaged sixty bushels to the acre: sixteen acres of wheat, averaging thirty bushels: 200 acres of corn that will average fifty pushels per acre, and this fall will feed for market eighty head of steers.

Indians Object to Taxes. Secretary Proctor has requested the department of justice to interfere in the case of the Thurston county, Neb., assessors, who have been instructed by the county commissioners to assess as personal property houses, barns and other fixtures beonging to the Indians on the Omaha reserattacked the animal's head falls, and its vation. The Indians are willing to pay taxes on personal property, but not on their houses and barns, which they consider exempt under the allotment act. The department declares that this assessment is

Farmers City is a new town in Boyd

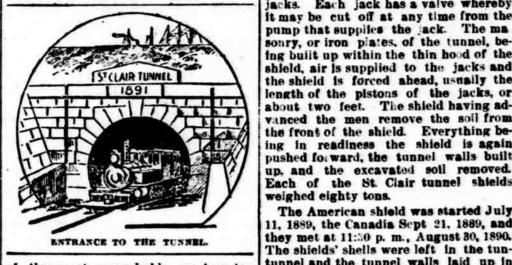
UNITED WITH CANADA

DEDICATION OF THE ST. CLAIR TUNNEL.

ing Achievement-Many Obstacles Delay the Work, but Are Finally Overcome-Six Thousand Feet Long Between Port Huron | car track. Inside the tunnel, beyon A Great Work Complete. The ceremonies by which the St. Clair River tunnel was formally dedi-

lic men of both the United States and Canada, made an official trip through the tunnel, starting from the American They were treated, upon their arrival in Canada, to a foyal reception, after which they returned to Port Huron,

Trunk Railway of Canada, extending under the St. Clair River between Sarnia, Ont., and Port Huron, Mich., is one



most remarkable engineering went begging for cold victuals and old feats of the present day. The Grand Trunk Railway extended its lines to work, and the easiest progress was to Chicago in 1880. About 5,000 miles of ward Canada, the average being ten feet America. In an interview with Robert cution at Yankton of the private banks of steam ferries had been used. Their The tunnel approaches have the same Griffin, the head of the commercial department and comptroller of the corn returns being made defendant in a test case by an tory because the river's current is very tunnel itself. On each side of the great of the British board of trade, he was asked agreement among the bankers. The com- swift; in winter there have been ice cutings are high and deep stone retain what truth there was in the calculation plaint was made before Judge White. The jams; the railway had to deviate about ing walls. Each portal is 36 feet high that England and the continent would be facts stated in the complaint are admitted six miles; a bridge was impossible, owing and 148 feet wide, about 10 feet thick forced to part with gold amounting to 60,- and the only question involved is a question to the nature of the ground and the op- over the entrance of the tunnel, and 600,000 pounds to pay for the imports of of law. The suit is: Can the legislature position of the marine interests. The about half that width at each end. Like St. Clair River bears the most commerce | the retaining walls the portals are made

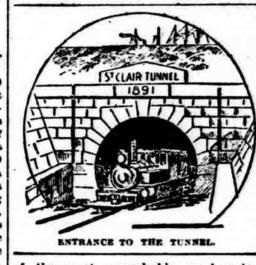
The Grand Trunk's Remarkable Engineer

The St. Clair tunnel, on the Grand



ble. For some time it was thought the

cated were the most elaborate of any pressure of 22 pounds per square inch ver held in that section. Extensive a total atmospheric pressure of 37 pounds preparations had been made both at per square inch, or about 234 at ort Huron, Mich., on the American side, and at the town of Sarnia, at the Canadian entrance to the great tunnel quicksand. On the American side com which how connects the Dominion with Incle Sam's domains Sir Henry Tyler, Fresident of the Grand Trunk Railway. with other officia's and prominent pub



tunnel might have to be abandoned Compressed air was found a sure reme dy. At the river line on each side, brick and cement, air-tight bulkheads were built across the tunnel. Each bulkhead had two air chambers, one or each side, 7 feet in diameter and 17 fee

long, with air-tight doors at each end Through each air chamber passed the bulkhead, work was begun under an air pressure of 10 pounds to the square inch. From time to time the air pressure was gradually increased, unti the men worked under an artificia mospheres. On the Canadian side the highest air pressure was used because of

pressed air was used from April 7, 1890; on the Canadian, May 20, 1890. Because of water and quicksand the St Clair tunnel could not have been constructed without the aid of hydraulic mining shields. Such shields had been used successfully in London, Chicago, Buffalo, Broadway tunnel, New York City, the Hudson River tunnel, and in other works. This shield is a cylinder. where banqueting and speech-making like a headless barrel. Its front end again awa ted them has sharpened edges to cut into the earth. The thin rear end is called the hood. The in-ide is braced with iron, both vertical and horizontal. Around the main walls are sets of hydraulic jacks. Each jack has a valve whereby it may be cut off at any time from the pump that supplies the lack. The ma sonry, or iron plates, of the tunnel, being built up within the thin hood of the shield, air is supplied to the jacks and the shield is forced ahead, usually the length of the pistons of the jacks, or about two feet. The shield having ad-

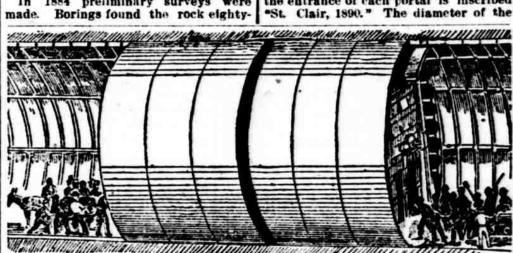
> Each of the St. Clair tunnel shields weighed eighty tons. The American shield was started July 11, 1889, the Canadia Sept 21, 1889, and they met at 11:30 p. m., August 30, 1890. The shields' shells were left in the tuntunnel and the tunnel walls laid up in them. The American had done the mos

> ing in readiness the shield is again

pushed forward, the tunnel walls built

up, and the excavated soil removed

of rough, heavy limestone blocks. Over In 1884 preliminary surveys were the entrance of each portal is inscribed

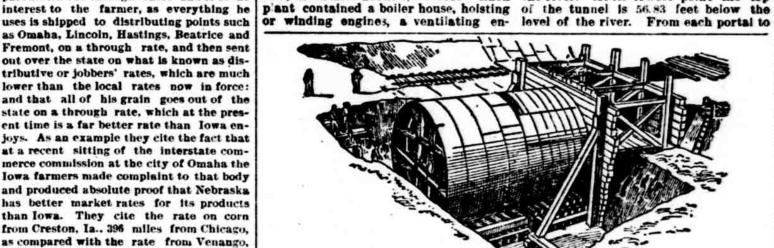


one feet of blue clay. Plans and drawings were made. The St. Clair Tunnel on each side of the St. Clair River; tunnels. drifts at right angles were started under the river; water and gas stopped work. To the river's edge on the American In 1887 these shafts were begun. The

six feet below the level of the water: the circle is 20 feet, and flush with the were yellow sand about two feet; with was 700. In the tunnel eight hours sand and blue clay mixed about twelve made a day's work. The tunnel was

feet, thence to the rock about twenty- estimated to cost \$2,500,000, including plants, materials and labor, and it required about that sum. It is likely that Company was organized in 1886. At a second tunnel will be built near this. first the company thought of starting The present plants and experience will from immense shafts on the shore, and then be of additional value. The second then working outward to the land ap- tunnel will be of cast iron, as it is supeproaches. In 1886 test shafts were sunk rior to brick and cement for similar The St. Clair tunnel is 6,000 feet long.

side it is 1,716 feet; on the Canadian, 1.994 feet: under the river, 2,290 feet. The tunnel plants were erected back 21 feet, the inside 19 feet 10 inches. from the river; in Michigan about 1,800 tunnel nearest the river is 8.43 feet from PUMPS BEPAIRED ON SHORT feet, in Ontario about 1,900 feet. Each the river. At its lowest point the top



cutting at it- broadest portion is 260 feet approaches is 11,725 feet. wide, the American about 200 feet wide. In Port Huron Aug. 26, 1890, was re-Into each pit inclined tracks were laid corded one of the large-t mortgages ever for engines to hand out the dirk. On the banks derricks were erected for hoisting The St. Clair Tunnel Company gave it

fron, suggested by Chief Engineer Hob- will be appreciated by passengers and son. In the circle are thirteen seg- shippers. There will be no more trouble ments and a key. Each segment is 4 from ice blocks or other obstructions in feet 10 inches long. 18 inches wide, and the river and the best time will be made 2 inches thick, with flaeges inside of 1% inches thick and 6 inches deep. In each segment were cast 32 holes. 4 in each end flange and 12 in each side flange. Through these holes passed steel bolts seven eighths of an inch in diameter inches of consolidated Nile mud had In each section of the tunnel the cir- to be removed before the platform cular joints required 157 bolts and was reached. This platform was laid the longitudinal joints required 56 boits. 1.361 years before Christ, in the reign The flanges took in a circle of 20 feet of Rameses. Hence, three and oneand 5 inches in diameter. The edges of half inches of this consolidated mud the plates were planed in the machineshops near the tunnel entrances Each represents a century, there having plate was then heated and dipped in cold lapsed 3,215 years since then. Under tar. This had been found better than the platform a depth of thirty feet of to dip the cold fron into not tar. For- Nile mud had to be penetrated before

When the bed of the river was reached, county. It is the alliance candidate for quicksand and water made great trou. San Francisco has 4.500 salsons.

gine. an air-blower with a capacity of the r ver the grade is 1 foot down for 10,000 cubic feet of air per minute, a every 50 feet: under the river, 1 foot machine shop with machines for tunnel d wn in every 1,000 feet toward the work, a water pump for the pit, and an Canadian side to that drainage shaft. electric light plant. The tunnel will be Over 2,000,000 cubic feet of soil was Preserves many a large business. lighted by electricity. The electric plant taken from the tunnel itself. The castis in Sarnia, where permanent brick iron lining of the tunnel weighed boiler and engine rooms have been 54,000,000 pounds. To fasten this lining The great cuttings for the approaches inch in diameter were used. The Canawere commenced New Year's, 1889, dian open cutting is 3,193 feet Each cutting was made about sixty feet long; the American, 2,532 feet long. feet deep at t e porta'. The Canadian The total length of the tunnel and its

the soil. In September. 1890, steam to secure bonds running fifty years and shovels began work on the cuttings. On bearing 5 per cent. annual interest, coveach side of the river two shovels were ering all the present property of the used, each attended by an engine and company. Rent and tolls can be coltrain of flat cars. Several hundred men lected for allowing other railways than were employed night and day, lime the Grand Trunk system to use the lights being used at night, and the soil tunnel. was removed in layers. The work of . It is believed that the Grand Trunk these shovels was greatly hindered by route, as thus improved, will offer facilirains and numerous landslides occurred. ties for through communication between The tunnel wails are made of cast Chicago and all points in the East which

for traffic of all kinds In digging out the colossal statue of Rameses II. nine feet and four

merly the tar would not dry quick sandy soil was reached, and, according enough; later the tar was dried by the to this, 10,000 more years must have time the segments were cool. The segments were lifted to place by a circular crane revolving on a spindle in the center of the shield. This spindle had a large to this, 10,000 more years must have elapsed. Pieces of pottery were found there that show the Egyptians to have possessed enough civilization to vise at one end and a counterbalance form and bake vessels of clay 13,000 years ago.

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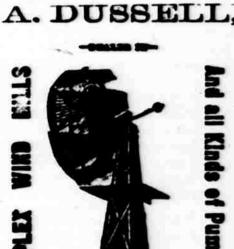
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