THURSDAY

Will Revolutionize the Smelting Industry

although we had been assured that they

tied up in litigation and the furnace

still side-tracked at Buffalo, The next

Carolina which had been shut down for

six-tenths per cent copper. But the ar-

rangements were bad, the water supply

constructed as they had been planned.

to get to work and used soapstone fo

per cent of coke. But conditions were

"The furnace itself is a rectangular

"The patent in the United States i

and Montana company have the rights

in Montana. The Garretson Foreign

Patents Co. control the patent in Chili,

Australia, England, Spain and other

foreign countries, with the exception of

Mexico, where it is controlled by the

British Columbia are held by Pittsburg

people in connection with Mr. Bellinge

and his associates. The parent company

interested in the latter, is at Crofton

MILLS ARE RUSHED.

British Columbia Mills Unable to Fil

Orders for Lumber.

VANCOUVER, Sept. 27.—So great is

the demand for British Columbia lum-

ber and shingles that the many mills of

this province are not able to supply it.

requests from dealers throughout the

country for lumber. There has been a

considerable boom in the lumber indus-

try this year, and the result has been that logs cannot be supplied the mills

as rapidly as they can cut the timber.

PROTESTS TO THE VATICAN.

ROME, Sept. 27.-The candidacy

Vatican is in receipt of numerous pro-

Catholics ought to be allowed entire

ONTARIO'S MINERALS.

TORONTO, Sept. 27.-A statement is

sued today by the Ontario bureau of

proportion of iron ore raised in the pro-

worked on an extensive scale. A con-

siderable part of the product is import-

GERMAN GUNBOAT PANTHER.

KINGSTON, Ja., Sept. 27.-The Ger-

man gunboat Panther arrived here to-

day from Hayti. She reports that the

government troops under General Alexis Nord have defeated the rebels

Firmin's right hand man, is reported

dead. After taking on coal and pro-

Passengers ticketed over the Spokane

Falls & Northern yesterday included

Genera

bre. General Jean Jeamau,

zuela by way of Trinidad.

visions, the Panther will go to

ed to the United States.

investors holding half the stock."

not altogether satisfactory and we de

nsufficient and the buildings were not

furnace was built for a mine in North

(Special to The Miner.)

smelters, but none has been in operatin up to the present. The first we constructed was for a mine in Mexico, but VANCOUVER, B. C., Sept. 24.-Are we to be millionaires? That question the plant was held in quarantine so long that we got tired and built another at will soon be settled for Judge Reed of Pittsburg and his colleagues of that Ely, Vermont, to work on ore dump town, Messrs. Bagley and Lindquiste, containing one per cent of copper. Our who are at Croftonion Vancouver island to witness the trial of the Garretson tory, but we were obliged to abandon the place owing to the sale of the profurnace which, if successful, will revoperty we were working on.
"The next furnace was built for Colo lutionize the smelting industry of America. The inventors are C. S. and F. C. rado people, but we found that it was only secured for stock jobbing purposes, Garretson, father and son, and they worked on their furnace for ten years before it was started on its first trial sories a specific That smelter has the Crofton smelter. That smelter has been put up by the Northwest Smelting Refining Company, the principals of which are D. S. Fotheringham and H. C. Bellinger of Spokane and W. Breen of Butte, Montana. In mining circles the construction of the smelter -the first on the British Columbia coast is as nothing compared to the possible importance of the Garretson smelter which, if successful, will cut down the Mr. Bellinger came down when the cost of smelting to one-quarter of what it is today. It will do away with the neit is today. It will do away with the lab to get to work and used soapstone for cessity of using coke and will abolish the bottom of the furnace. We got one the separate converting plant; in a rum out of it and then the trouble beword the three present processes of gan. During a six hours' run we put smelting are combined and the whole ns take place in one apparatus. It is needless to state then, that the eyes of the mining world are eagerly

cided to erect another furnace at Crofton, here in British Columbia, on the plans of the Northwest Smelting and turned on Crofton today. F. C. Garret eaking of the invention, said: plans of the Northwest Smelting and Refining Company, which Mr. Bellinfather and I have been working on it for nearly ten years. We got on ger kindly placed at our disposal. to the subject through a mine in Mexi--a low grade and rebellious ore proshaft furnace, 38 inches wide and 161 inches long inside. The height of the which we bought. We sent mples of the ore to seven metallurjacket is 9 feet 10 1-2 inches, with ampies of the ofe w seven different kinds number of 2-inch smelting tulers. Its of advice, so it was pretty certain that capacity is 360 tons in 24 hours. six of them were wrong. We finally decided that pyritic smelting was the best held by the present company, the Garand we worked our furnaces and did retson Furnace Company of Pittsburg. The Garretson Southern, a subsidiary much experimenting in a small way. Finally, about three years ago we developed the idea patented in the Garretson furnace as it is today. "It is a little difficult to explain our

system in a way intelligible to a layman, but I may say that the ordinary ss of smelting involves the roasting and smelting of ore as separate pros to the converting of it. The ore takes six weeks in the roasting proces and, in the case of a smelter treating 1000 tons of ore a day there would have to be 42,000 tons of ore—which means the capital represented by its value tied up for the time being. The smelting process is much the same in our ace, but we utilize the sulphur and Boundary Falls smelter near Green iron in the ore as fuel, which saves the wood, J. N. Greenshields, K. C., who is cost of coke. In ordinary pyritic ore there are as many heat units as in coal. watching the experiment. "Further, we do away with the cost

of the converting plant, which is the ost expensive portion of a smelting plant. In cases where the ore is rightwe do away with carbonaceous fue and the cost of the Garretson process is, roughly, just one-fourth the cost of or-

"After roasting it is necessary to put through an ordinary water-jacketed available product is disposed of as soon as manufactured, and the mills in the solution of the mi verter to be blown into copper. In our turnace we take the raw ore as it comes from the mine, charge it into the top of the furnace and take out at the bottom blister copper, which is about 94 per cent metallic copper. After that it that logs is only necessary to refine it electrolytically to eliminate what impurities re-

main and separate the gold and silver. "The difficulty with the present proces shas been that a high grade prothe Right Rev. Sebastian G. Mersmer duct could not be made without taking a rich slag-too rich in mineral to be bishop of Green Bay, Wis., for th thrown away. Also it was not considered possible to convert in a water-jacket converter without lining it with fire clay and crushed quartz, which has to be frequently replaced and is an Vatican on Philippine matters. expensive method. A number of systems of introducing silica into the convert- tests against the anti-Catholic order in ers have been tried, and they have been the Philippines. It is claimed that the in the treasury. On September 1 last lined with refractory material such as magnesia, but it was found difficult to freedom of teaching among a communintroduce the necessary silica so as to ity where the only form of worship is make it combine with the oxide of iron Catholic.

formed in converting. "We obviated this difficulty by converting underneath the charge in the furnace, feeding an excess of silica in Half Yearly Statement From Bureau with the charge and converting by a row of tulers placed around the furn In this way we prevented all the silica from being taken up at the top and it is forced down by the weight of the mines shows that the value of provincharge above it as silica, into the matte cial metalliferous products for the

half of the present year, ending June "We are not claiming to do anything 30, was \$2,902,722, compared with \$1,which is not entirely consistent with 438,539 for the corresponding period of the laws of chemistry. We have simply last year; and \$824,076 for the six months combined the three existing processes, and the whole operations takes place months of 1901. There were the following in one apparatus. Pyritic smelting is increases: Gold, ounces 516, value \$11,an established fact. The reason it is not 968. Nickel, tons 1211, value \$891,256. more in use is that in order to make a Copper, tons 377, \$164,771. Iron ore, tons sufficiently high grade matte it is es- 124,212, \$223,680. Pig iron, tons 14,302, sential to run the furnace very slowly, \$180,430. Arsenic, pounds 108,946, \$2088. furnace is kept in good smelting condi- in weight and \$8016 in value. The gains be erected on the college campus. tion the product is so low grade that in nickel and copper were large, both it has to be put through the smelter again. In our furnace we are not particular what grade of matte we get, because converting is carried on in the

"It has always been said that if you make a high grade product it means a rich slag, but we can make a rich pro duct and get a clean slag because the making of the rich product is carried on below the slag level in the furnace and before the slag goes out of the fur-nace it is cleaned by the low grade matte falling and being converted.

"We are creating an excess of heat by converting immediately under the smelt ing zone of the furnace. It is usually considered necessary in pyritic smelting to have a hot blast, and we avoid that by putting an excess of air in the converting tuiers and allowing it to pass through the hot matte and slag into the smelter zone above, being heated in

"The Garretson furnace has never been a successful commercial operation but sufficient experiment has been made o show that we are sure of the ground. Yakima, Wash.

ALL THE DETAILS ARE The furnace has been built for several

> NEW YORK, Sept. 27 .- The Commerial Advertiser prints the following to-

"It was learned today on the highest authority that all the details of the Atlantic steamship combine which has been arranged by J. Pierpont Morgan are now practically completed, and the deal will, be consummated and the full particulars be made public early next

George W. Perkins, who was at the French line pier this morning to mee Robert Bacon, of the firm of J. Pierpont Morgan & Co., confirmed this in an interview to a reporter of this pape twenty years, and we intended working on a dump of ore containing one and for some time," he said, "and have just completed all the arrangements, con tracts and working arr which are to govern the consolidate lines. A statement will be given to the next week in which all the dethe arrangements will be place was ready and we were in a hurry

SOLDIERS RUN AMUCK.

Them Arrested-Attempt Many Made at Rescue.

ber of the Royal Canadian soldiers were disorderly on Barrington street last night, came into conflict with the police and serious trouble followed. Several arrests were made, but the police were not strong enough to disperse the 1000 people who gathered at the police station where the soldiers all at this time. South East Kootenay were and made threats to rescue them The Imperial authorities were notified and 50 Royal Engineers were dispatched to the city hall in readiness for any emergency, while the Royal Artillery were ordered out to patrol the streets. The Canadians soon after returned to company, holds the rights for some of their barracks and no further trouble the southern states, and the Pittsburg

SAME OLD STORY.

Hunter Mistook His Brother for Game and Shot Him.

Garretson-Mexico Co. The rights in BURKE'S FALLS, Ont., Sept. 27. While hunting in township Laurier, Wellington Middleton mistook his brother George for game in the bushes is organized on a nominal capital, the and shot him dead. If the furnace is successful it will be installed as soon as possible at the

ILLINOIS CENTRAL PROSPERS. President Fish Reports Increase

ed \$40,821,030 gross and \$12,806,570 in Great Northern built from Jennings, come were unprecedented, amounting one stops to think of what has been

pany for \$60,000 a year, has been pur-chased at an option price of \$1,000,000. every instance behind in the filling of Louisville & Nashville Railroad com- for men with money t At the annual meeting of stockholders, to be held in Chicago on the 15th of next month, a vote will be taken on a proposition to merge all of the leased growth. It is a grand opening roads aggregating 1990 miles, into the proposition to merge all of the leased rapid growth. It is a grand opening at the head of Nain Bay," said Mr. Perrigo. "The tip came from a guide, who knew in a general way where it thriving town." — Morrissey Miner, who knew in a general way where it thriving town." — Morrissey Miner, specific that a hundred bodies have already been found, but that the number of who knew in a general way where it thriving town." — Morrissey Miner, specific that a hundred bodies have already been found, but that the number of who knew in a general way where it thriving town." — Morrissey Miner, specific that a hundred bodies have already been found, but that the number of could be found, and we determined to could be found. majority of Illinois Central stock, this merger is practically assured.

FOREIGN MISSIONS OUT OF DEBT.

NEW YORK, Sept. 27 .- For the first time in several years the American Board of Foreign Missions has been able to close its fiscal year free from debt and with a balance to its credit year, at the beginning of the fiscal year, the board had a debt of \$102,341.38. This has been entirely liquidated, the other expenses of operation have been paid and the board found on September a credit balance of \$1461.12. The total receipts for the year were \$845,105.95, including from churches and individuals 278,766 and from the women's boards

\$214,716.61. The board is now preparing for its ninety-third annual convention, which will be held in Oberlin, Ohio, from October 14 to 17. The annual sermon will be preached by the Rev. Dr. Newell Dwight Hillis of Plymouth Brooklyn, on the evening of October 14. One of the most interesting features of the assembly will be the laying of the corner stone of the Martyrs' Memorial, in honor of the missionaries of the board who lost their lives in the Boxer uprising in China. Nearly all of these 13 missionaries were graduated from Oberlin College and the memorial will Silver showed a decrease of 5200 ounces

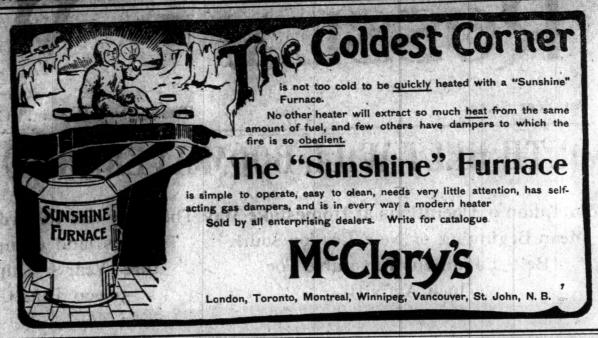
It will be in the form of an arch in quantity and value. By far the larger and will be placed near the west end of Tappan's Walk, directly in front of vince comes from the Helen mine in the main entrance to Peter's Hall. It Michipicoten district, which is being will be of buff Indiana limestone and

A BAND OF AROUTS.

Have Killed 12 Servians and 16 Peas

band of Arouts, while in the Servian territory, attacked the village of Mir-General konvitsch, but retired after a two hours fusilade. Within a few months the and are occupying the village of Lim-Arouts have killed 12 Servians and 16 peasants and have wounded nine sol-

diers and 11 peasants. Mrs. M. W. Simpson has returned t Rossland after spending some months in Toronto and other eastern points. Norman T. Macleod of Nelson wa in the city yesterday. Mr. Macleod is a subaltern officer in the Nelson com-



GROWTH OF FOUR YEARS. mportant Changes in This District-Wealth Developed.

Chris Eckstrom of Seattle arrived in own Wednesday afternoon over the Great Northern, and will probably locate in this town permanently. After looking over Morrissey he expressed the opinion that the town should have a rapid growth, as it was backed by substantial resources. "In fact," said Mr. Eckstrom, "South East Kootenay is today one of the best fields for business I have seen the past two year During that time I have visited in a usiness way the northwestern states. Alaska and portions of Columbia, and I look upon this district, with its coal, timber, mineral, mines and competing railways as the best of has a great commercial future, and especially this portion with its magni-

cent deposits of coal. "There may be those in this part of British Columbia who have the idea at times that this district has not proessed in a satisfactory manner. left the district four years ago this summer, and the changes that have taken place since then are simply wonderful. At that time there was no Kimberley, Marysville, Cranbrook Fernie, Morrissey, Elko or Michel Moyie was getting started, and Coal Creek was the only town in this part of the district. Since that time the coal mines have been developed by the expenditure of hundreds of thousands dollars, and the town of Fernie, with the Michel and Morrissey camps, have been built up. The mines of land by finding a hitherto unmapped Moyie have been consolidated and today it is conceded to be the largest silver-lead proposition known. The means of a boat. Deposits of mica, both NEW YORK, Sept. 27.—President been developed and the smelter at Stuyvesant Fish of the Illinois Central Marysville is under way. The C. P. R. coast. The commercial value of these of troops, has started for the place in the same of troops, has started for the place in the same of the same of the same of troops, has started for the place in the same of troops, has started for the place in the same of has been completed through to Cran-Railroad issued his annual report yeshas been completed through to Crandiscoveries is yet to be determined.

C. H. Perrigo was the only member
of the party from Chicago. He arrived
from Cranbrook to Kimberley, the
of the party from Chicago. He arrived
home bearing a large collection of samp-

"betterments Mont., to Morrissey, and other roads les of the minerals and a number

THE DUTIES ON PULPWOOD. Increase by United States Would Hit Canadians Hard.

TORONTO, Sept. 27.-The reported ntention of the United States government to add 25 cents a ton duty on nd wood and 35 cents a ton on unlong." bleached sulphite and soda pulp was discussed with interest around the parliament buildings yesterday morn According to report, the United States considers that the regulations in Quebec and Ontario are equivalent to an export duty. In the former province the stumpage is reduced from 65 cents to 40 cents a cord, when the pulpwood to an end early yesterday. is manufactured in Canada, while Onber cut on crown lands. An official of self and to his attorneys that he was if the statement were true the imposilarge, and they would consequently suffer most. Action of the nature stated to have been adopted by the United States would, he thought, be more likely to be a result of the Quebec stumpage rebate method than the system followed in Ontario. He did not think dealers in the United States would be hit to any great extent, as there was a good deal more pulp wood in that country than most people in Canada

hardly cared to give an opinion with- and rendered it impossible for him to out due consideration Off-hand, how- do ministerial work. ever, he thought it might lead to the establishment of more paper mills in Canada, and (as the United States had BELGRADE, Servia, Sept. 27.—A a duty on paper) to the widening of the and of Arouts, while in the Servian Canadian market in England and on immorality was involved. the continent.

GENEROUS OFFER.

Alderman Sorter Will Distribute 6000 Cords of Wood Among Poor.

forty miles of Toronto, which he will give to the city for distribution among the poor this winter in view of the John McKane to San Francisco and pany of the Rocky Mountain Rangers, scarcity of coal in the city. He will scarcity of coal in the city. He will scarcity of the Prussian head, causing temportakina, Wash.

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Invariably in advance

BACK FROM LABRADOR. Glazier Party Found a New River and East Coast of Sicily Deluged-Violent Rich Minerals

CHICAGO, Sept. 26.—The Glazier exploring party, which has just returned home after two months spent in Labra dor, has 'added to the geographical knowledge of the interior of the frozen river. The party was enabled to penetrate 100 miles into the interior by

come were unprecedented, amounting one stops to think of what has been to \$4,994,502. Total expenditures for betterments exceeded \$8,000,000.

The stops to think of what has been divined by colonic was neaded by colonic was neaded by colonic was neaded by colonic was readed one of the storm was neaded by colonic was 125 miles long and everybeing the source of the Mississippl thing in the line of the storm was de-The report states that the Louisville rext four years, he is simply amazed river in Lake Glazier. George H. Clark stroyed. The sea swept the island for

> several miles long. They are co by rapids so swift that we had to haul the lower portions of Modica. Bridges our boat up them by ropes. There are and roads have disappeared, and damten lakes in all, and the mountains rise age amounting to many millions lire has from their sides to a height of 1000 and been done. The survivors of the catas-2000 feet. At times it was difficult to trophe have taken refuge in the hills. find enough of a beach to camp on. The A relief committee and search parties last lake we crossed was thirty miles have been organized at Modica. The

BEHOLD THE WRECK YOU HAVE

KEOKUK, Ia., Sept. 22.—The case of the Rev. P. J. Henness, before Iowa conference of the Methodist Epis. copal church, came very dramatically

When Mr. Henness himself took the tario prohibited the export of all tim- stand, he said it was evident to himthe crown lands department said to a not to have a fair trial, and handed Globe reporter yesterday morning that the parchment of his ordination to the committee, following with his resignaif the statement were duty would certainly be a hard blow for a number of well as from the ministry. Turning to pulpwood exporters. There were not his wife, who was present, the solf-unfrocked minister exclaimed: "Wornthe other provinces the number was an, behold the wreck of a man you have made.

His wife broke down at this dramatic exhibition. The committee for the trial of Mr. Henness immediately closed its session, having lost its jurisdiction of the case by his action in placing himself outside the pale of the

Mr. Henness, after maintaining silence stubbornly for a year, said today that the reason that he left his wife was because of her continual "naghad time to look into the matter, and ging," which broke down his health

The charge against him before the

POLISH AUTHOR'S ADVICE.

BERLIN, Sept. 27.-Henry Rienkie wicz, the Polish author, advised the Prussian authorities not to allow themselves to be driven into extreme acts or words through the anti-Polish agitater has notified the city council that he tion. He has addressed an appeal to has six thousand cords of wood within the Polish people in which he says: tion. He has addressed an appeal to "Hold fast to your Polonism-let power on earth tear it from you. But avoid hatred of the present govern-

PATH OF A CYCLONE.

Submarine Agitations LONDON, Sept. 26 .- A dispatch from

Syracuse, Sicily, direct, says that the stream flowing through Modica, swollen by the recent terrific storm, suddenly overflowed and inundated the town, and that several houses collapsed and a number of families perished. The

SYRACUSE, Sicily, Sept. 26.-For 24 net. The expenditures for betterments and the district. When curios purchased from the inhabitants, the island a violent storm raged on the and miscellaneous" out of current inwould be more assured. And this town to Mr. Perrigo were six students from was such that rails were torn up and

thing on the ground floor in houses in disaster is supposed to have been due to a marine waterspout.

The German steamer Caprera W wrecked at Catania after a terrible struggle with the waves.

BELIEVES SON INNOCENT.

Father of William Hooper Young so Expresses Himself.

PARIS, Sept. 26.-A representative of the Associated Press has interviewed John W. Young, father of William Hooper Young, who is charged with the murder in New York of Annie Neilson Pulitzer, on the developments in the case against his son. Mr. Young said: "I am now convinced from what has been published and from my own cable advices that my son is innocent, and I shall do the utmost in my power to help him, while if I thought him guilty of such a horrible crime I would not move my hand to save him from justice. "He is wayward, but he never had a criminal tendency. The only explana

tion to my mind which can connec him with the crime is that he fell under the influence of some designing person who perpetrated the murder through whom my son acquired a guilty knowledge of the crime, or possibly became an accessory after the

TRANSFERRED TO CHINA.

PEKIN, Sept. 27.—Simultaneous with the Russian transfer to China of the Shan Hai Kwan, New Chwan railroad, Sir Ernest Satow, the Britis minister, yesterday handed over t China the British portion of the Shar Hai Kwan railroad station, and the British are now transferring their shop and other works with the intention making a complete restoration of the road at the earliest possible date.

MAYOR WESTON DEAD.

NEWBURG, N. Y., Sept. 27.-Maj W. H. Weston, president of the Central Hudson Steamboat company, died this

(Special to

GREENWOOD, Annie Larkin, wh times of railway o Larkin House in for several years in the restaurant on Monday and w was a very active until some month alytic stroke lay then she has been the greater part in the Greenwood Yesterday's train Greenwood L. B. I for the Vernon &

company, and his Hodge were marri (Special to GREENWOOD.

Montreal & Bost

Sunset mine, at sumed last week shut-down caused age in the coke st ing operations, is to the company's maintained to sup of the smelter above tom ores, and at t tive policy of fur being instituted a sinking the main ing other develops the diamond drill on the lower levels wards and laterall ore bodies and as where sinking or done to best adv directors, J. N. Gr. Munroe, both of M terday. A second in at the company increase its capac treat larger quant

A. C. Flumerfe of the Granby (Smelting & Powe was here yesterds

SENATOR

BOSTON, Mass States Senator He Lieutenant-Govern guests of the Mas can Editorial asso here this afternoon Senator Lodge the burden of tariff should not l this time. He deck to revise the tarif injure the busines country to such a not possibly be co advantages that

tariff revision. ada, he maintained party had always ment and had d been accomplished ply talked recipro not optimistic reg to be gained by reciprocity with . ciprocity would gi market of 80,000. market of only 7,

ALL-CANADA Two Victoria Men

VICTORIA, B. (Schofield and Art Victoria's best r been selected as Canadian rugby Montreal in No months' tour of They will spend before leaving pre

CHURCI Knox Independer

VICTORIA, B. Independent Presi alists in a body, tional church or the city.

STATEMEN The Suit Against

(Special VICTORIA, B. of Bodwell's so that he had drop Prior is unfoun igorously pushed Blair, minister ing arrangeme

TOURING T

GRAND FOR William H. Nicl Nichols Chemical refiners of precio Boundary distric Granby smelter

GRANB GRAND FORE During the week Granby smelter t Grand total treat