

UNTOLD WEALTH IF TESTS SUCCEED

Experiments With Cobalt as Substitute for Nickel in Steel Alloys—Product Wanted

An investigation which may reveal hidden fortunes in what are now the useless dumps of cobalt oxide at the ore smelters and at Cobalt camp, and give to Canada a new steel alloy industry, is being conducted by the Department of Mines.

SOME REQUESTS OF AN EMPLOYER

- Rule 1. Don't lie—it wastes my time and yours. I'm sure to catch you in the end and that's the wrong end. Rule 2. Watch your work, not the clock. A long day's work makes a long day short, and a day's short work makes my face long.

RIEL VETERAN DEAD

Thomas Orthwaite, Recuser of Headlong, Dies Suddenly After living the life of a recluse in a one-roomed shack in the village of Headlong, Manitoba, for over 30 years, Thomas Orthwaite, an old Yorkshireman, dropped dead while feeding his stock.

English Grocers and Tobacco

Grocers in England no longer sell tobacco, but for many years after the "sovereign herb" reached England, there were the only shops where it could be obtained.

Power for a new fire proof machine

Power for a new fire proof machine for protecting motion picture films is provided by a new electric motor.

OLD-TIME BUFFALO HUNT

Huge Herd Slaughtered to Provide Meat After Being Driven Into Pen

The driving of buffalo is a science with which the modern cowboy or plainsman is unacquainted, according to Mr. Albert Tate, an old-timer of Edmonton. To make plain the methods adopted of buffalo hunting in the old days, Mr. Tate told the story of a great round up which occurred near by half a century ago.

A NIOBE "HANDYMAN"

Sailor Assists Engineer Repair Broken Crank Shaft It's common knowledge what a handy man the British Jack tar is when occasion demands. One of the crew of H. M. C. S. Niobe, however, during a train trip between Ottawa and Montreal, assumed an entirely new role as handyman in time of need.

ONTARIO'S VASTNESS

Few people realize what a tremendous province Ontario is. It extends for nearly twelve hundred miles from east to west and over a thousand miles from south to north.

Oldest City in World

The great archaeological authority Sir William Ramsay, considers the oldest city in the world to be the city of Jericho, in Asia Minor.

HERMIT OF WOODS DANCED IN CAFE

His Feet Could Not Keep Still When he Heard "Bonnie Doon" Played

While groups of five o'clock tea parties were refreshing themselves in a Montreal cafe, and the orchestra was playing softly, a tall, muscular man, who had been sitting quietly at a table alone, leaped from his seat and with wild gestures began leaping about the room to the imminent danger of the tables.

Strange Old Character

The one-time famous "Jock" MacDonald, of Inverness, was again in the limelight. Twenty years ago "Jock" was turnkey in the Inverness jail, and one of the most talked of men in the North of Scotland.

Wanted to See Home

Then the fever for a change came upon him and he resolved to make for his old home. Then came a letter from his aged mother stating that she was on her way to Canada and wanted him to meet her in Montreal.

CANADA'S LUMBER KING

His First Big Financial Stroke Was Purchase of Doubtful Railway

Canada's premier lumberman is J. R. Booth, of Ottawa. Among the friends of Booth there is a question whether he made his fortune in lumber or in railroading, but it is the general belief that his estate is about equally indebted to these two sources of revenue.

Booth was born in Ottawa, Canada, in 1841. His father was possessed of more than the average means, but before his death, which occurred when the present head of the family was a boy of 15 years, he lost all of his money and thus compelled his son to depend upon himself.

This enforced independence bought out all there was in him. He saved and worked, worked and saved, and at a comparatively early age built up a huge lumber business from a tiny sawmill on the Ottawa River. He did not capitalize but paid hard cash for all that he bought.

His first big stroke in the world of finance was when he bought the Canada Atlantic railroad, an indifferently sort of institution, with few visible assets and fewer prospects. Booth set about his task with the confidence and determination that have been his chief characteristics.

Egg Membrane for Skin

For a long time doctors looked for a good substitute for human skin for grafting. The possibility was lately demonstrated by taking the membrane that lines the shell of a newly laid egg, plastering it over a burn, and making it grow as human skin.

SCOTCH GIRLS' FRIEND

Mrs. Radford Undertook Big Task at Advanced Age

Mrs. Jane Radford, founder and principal of the Women's Canadian Employment Bureau of Montreal, has big ideas for encouraging the best type of Scotch immigrant girls to come to Canada.

Mrs. Radford is considerably over the allotted span of years, and a very interesting story she had to tell of her work among girls who forsake the Old for the New World. Her public life commenced by her appointment to the Selecting Committee of an agency which was bringing girls out to Canada by the hundred.

SAD END OF BARONESS

Member of Noble German Family Died in Straightened Circumstances

There died at the Aged Women's Home in Toronto, Baroness von Heimrod, widow of the late Baron Ernest von Heimrod, who lived on a little farm at Humber Bay.

CROWDED STREETS

Tremendous Traffic on Thoroughfares of Old World Cities

The City of London streets near the Mansion House have the heaviest foot passenger traffic of any in the world—500,000 persons a week day; while the Place de Opera in Paris has the heaviest vehicular traffic—63,000 vehicles a day, as compared with 50,000 a day at the Mansion House corner.

Centuries in Building

The four centuries between the Panama Canal's first conception and its completion are by no means a record in the annals of canal construction. The completion in 1893 of the canal across the Isthmus of Corinth was the finish of a scheme for which the first survey was made in the year 600 B.C., when Periander employed Egyptian engineers to carry out the work.

Minimized Ice Danger

On the steamship Royal Edward from Bristol, was Dr. Meyer Coplans, bacteriologist of public health in the University of Leeds, Eng. Dr. Coplans made the voyage for the purpose of testing an apparatus he has invented as an aid to navigators in fog and haze and for detecting the presence of icebergs.

Painting Metal

According to exhaustive tests by two German scientists one coat of paint or varnish protects iron from corrosion better than two or more coats.

Substitute for Radium

Carnote, a mineral found in Colorado, has been found sufficiently radio-active to produce shadow photographs resembling those made by X-rays.

Alcohol From New Source

A process for making ethyl alcohol from the waste liquor from sulphite paper mills has been patented in several countries by its Swedish inventor.

Very Tasting

"My wife has that awful disease, leptomeningitis."

ODD INVENTIONS AT PATENT OFFICE

About Ten Thousand New and Useful Ideas Protected Each Year in Canada

When the Canadian patent office was established in 1874 it was a rather small affair, and at first the annual registrations were few in number.

Lots of Variety

Twenty years ago an arm rest for typists was patented, but it does not seem to have received the respect which was its due. A frame has suspended from it two hands of elastic material terminating in loops. The arms are passed through the loops and are supported by them, and in this way do not tire.

A unique instrument is the "automatic violin," a patent for which was taken out. It is complicated, but the designs shows great ingenuity.

A fowl catcher is another invention. It consists simply of a pair of jaws at the end of a long handle. By a lever controlled by the hand the jaws can be quickly and tightly closed, securing the feathers of the unsuspecting bird; its capture then is easy.

A "rocking chair fan" is another invention which should be a means of comfort in the hot season.

Among the patents for chemical processes there is one for working up waste cheese curds into a marketable product. The curds are first heated, then thoroughly mixed with water until a thick gruel is formed.

Patent Office Rules

The full fee for an 18-year patent is \$60, but an inventor can secure one for twelve or even six years by paying a pro rata rate.

Applications for patents are refused if the article has been in use or on sale for more than a year previous to the application at the Patent Office; or if a patent for it has existed in a foreign country for more than a year; or if it had been previously known to, or made by, any person other than the alleged inventor.

Patents for Medical Compounds

Patents for medical compounds are, as a rule, refused. The preparation of such compounds does not involve invention. It merely involves the mixing of ingredients.

Sometimes a person working on an invention fears that somebody may despoil him of his idea before it is perfected. In that case he may file a caveat at the Patent Office, which protects him till the invention is ready to be patented.

Canada no Infant

Scientists estimate the age of the earth variously, from 20,000,000 years to 200,000,000 years. The Hon. Mr. Strutt, an eminent geologist, has assigned a minimum age of 711,000,000 years for some Archæozoic rocks from Canada he has examined.

Night Court Proposed

It was proposed to establish a night court in Montreal so that prisoners could at once be taken before the court and have their cases disposed of. In cases where they would be acquitted they would spend a night in the cells.

FREAKS OF THE FILM

Every one must have noticed that in moving pictures the wheels of carriages or automobiles often seem to be turning backward instead of forward. An authority says:—In taking a moving picture there are, perhaps, sixteen exposures made each second. If now the spokes of the wheel of a carriage move with a speed so that the spokes are in the same position at each exposure, that wheel will seem to stand still in the picture.

BALD HEADS AND HATS

Men's Tight Fitting Headgear Cause Shining Pate to Appear

Fashion governs women with or without their consent, but it governs men only when they consent to be governed. A notable exception to this rule is the hat, and a distinguished medical authority declares that baldness is due to the hats men wear.

A Heavy Drink Bill

Lawyer Says Edmonton Consumes More Than Its Share of Liquor

Calculating the expenditure on liquor at \$10 per head for every person in the Dominion, Alex. Stuart, K.C., in an address at Edmonton, said that in a town of the population of Edmonton it meant that if drink were abolished there would be an annual expenditure of \$500,000 available for schools, hospitals and civic improvements.

FINE FISH IN NORTH

Monster Salmon Trout Weighing Twelve Pounds Won Big Prize

The first grand prize for salmon trout in the \$2,000 fishing contest, organized by "Field & Stream," a New York publication was awarded to Mr. George W. Collier of Bordentown, N.Y., for a fish caught at Lake of Two Rivers in Algonquin National Park.

No Menace to Shipping

The Department of Marine and Fisheries did not find it necessary to take any action toward breaking up the steamer Helvetia, which sank in the Gulf of St. Lawrence off Gaspe as the result of her collision with the Empress of Britain.

Built by Guelphites

The Anderson Memorial building in connection with the Claire Loper Asylum at Clanduiri, India, of which the superintendent is W. H. F. Anderson, a son of the deceased Guelphite for whom the building was dedicated, has an inscription stone built into the wall bearing the name of the building, and stating that it was erected by friends in Guelph, Canada.

Electricity in Arabia

A modern electric plant has been installed in the palace of the Sultan at Oman, Arabia. This is the first instance of the operation of electricity of any sort in that country. The innovation was brought about by an electrical promoter from Hyderabad, India.