the solid and unyielding column water. On the other hand, the Dor er windmill is geared up to as run the vertical shaft at a high rate of speed for a wholly DIFFERENT PURPOSE

A windmill for power purposes in generally set on top of the barn. The mast must be firmly set and the shaft well braced to keep it in perfect alignment and make as little friction as possible. At the lower and is attached a pulley or a series of cog wheels to trabsmit the power to the machinery. Sometimes the feed grinder is geared or attachen directly to the lower end of the shaft. Every effort should be made to avoid the use of a line shaft, unnecessary/ gearing or a very long helt, as by such means a large percentage of the power is absorbed, particularly where shafting is opernted at high speed.

A test of a power windmill by Prof. F. S. King , showed that a 12-foot wheel would grind from 19.25 pounds of conn per hour, with a wind velocity of 7% miles, to 1348 pounds with a wind velocity of 35.6 miles. With a 20-mile wind a wheel of this size will grind 10 to 15 bushels corn per hour, or it will run a tuzz raw as fast as two men care to handle corswood, or a fodder cutter fast enough to keep two men busy supplying cornstalks and leading it. Where it is necessary to run a churn, rindstone, or other slow running machine, a short countershaft is laced a few feet from the main aft and the speed reduced in this may by the use of pulleys of alter-

BAD TEETH IN A COW.

Irregularities of the teeth may be occasioned by the unequal wearing of dine of the teeth of by some of the heisors being broken, which may appen when cattle are pastured on andy or gravelly soil. The molar orth may also show irregular wear rom similar causes. Their edges nay become sharp or it may happen hat a molar tooth is accidentally ractured. It may also occur that a upernunerary tooth has developed n an unusual position, and that it pterferes with the natural and regui ar instication of the food. The nonth may be examined by grasping heanimal's tongue with one hand nd partially withdrawing it from mouth so as to expose the teeth o inspection. When it is desired to namine the back teeth with the and so as to obtain a more precise lea of their condition the speculum, hich is used for horses, should be troduced into the mouth so as to parate the jaws and keep them part while the examination is being ade. Sharp orges of the teeth must e removed by the tooth rasp. Any both which interferes with masticaon or which is fractured or loose hould be extracted. In performing ich an operation it is best to throw cast the ox or cow and have its ad Wold securely so as to enable

BLESSING OF SUNSHINE.

operator to do what is necessary.

Curious Result of the Studies of a Swiss Professor.

Prof. Juneon of the University of is anne has been studying the polation of the valley of the Rhone Martigny and the Rhona The statistics show that right bank of the river between e points has a population of one while only 20,000 persons along, the left, bank.

here are two reasons for this difnce in the density of population he two banks of the Rhone. One that the right bank is less hilly therefore offers better natural ditions for the building of hamand towns; but Prof. Lugeon is vinced that a more important inuce is exerted by the different de-es of sunshine enjoyed by the two

has found that along a part of river banks which present exactthe same topographic conditions Population of the side which is i exposed to the sun has from to he times as many inhabis as the other bank which is in shadow of the mountains that d of most of the direct rays of sun. With one or two exceptions the villages have been built on bank which is most fully expos-

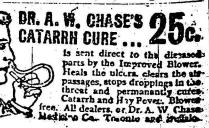
o the sun's rays. his influence of the presence or abe of sunlight also manifests itin the psychic characteristics and material conditions of the popuon of the two river banks. right side of the river in the sun Lopulation live more at their are more prosperous and prea degree of civilization more ad-

calls those who are most far with sunlight the solar ariste y and says that they contemplate a certain disdain the inferior plation wife dwell in the shadow

ed than those of the opposite

ss the river. ie people of the village of Reck-, which occupies both banks of Rhone, are notably divided into distinct castes whose origin, in last analysis, may be attributed the difference of sunshine to which two groups are exposed.

Well," remarked the sarcastic rist, this is about the dullest trict I ever saw." "D'ye think "D'ye think returned the native rustic. e'd better wait for a couple of eks an' then see how this place'll stirred up." "Indeed! What's stirred up." ng to happen?" · "Ploughin '1"



WELL AND STRONG.

AFTER ELEVEN YEARS OF GREAT SUFFERING.

A Wonderful Tribute to the Power Cure Stubborn Diseases.

that Dr. Williams' Pink Pills will emission of heat at, according to cure when doctors, hospital treat- M. Curie's calculation, a rate of ment and all other medicines fail. about 90 centrigrade calories per Paralyzed limbs have been restored gramme per hour. to strength, rheumatic sufferers made well, weak, angemic girls and wo- heat at this rate went on for 10,000 men made bright, active and strong; hours there would be as much heat strained impoself and brought on ter- drgy to radium while it was emitting rible pains in my stomach and back, heat to matter around it. where the trouble seemed to locate. Lord Kelvin illustrated his theory active, but as soon as I attempted as thermometric heat to the water work or exertion of any kind, the in the glass around it. Thus to congratulate you on your excelpains returned worse than before. All through the water there was actually lent taste.

slightest symptoms of the old trouble. I am only sorry that I did not know of the pills sooner-they would have saved me much suffering and at the transmitting end, is reproduc-With such proof as this, that even vented in Germany under the name apparently hopeless cases can be of the "telechirograph." The mescured, there can be no reasonable sage is written upon a sheet of paper doubt that Dr. Williams' Pink Pills with lead held in a pencil paving will restore health in all cases where flexible connections with two rheosgiven a fair trial. These pills are tats. As it moves over the letters, sold by all medicine dealers or will the pencil shifts sliding contacts be sent by mail at 50c, per box or which vary the electrical resistance. six boxes for \$2.50, by writing di- At the receiving end two electrorect to the Dr. Williams' Medicine magnets, influenced by the changing

BRAINY MEN.

wrapper around every box.

The ordinary brain begins to lose weight after the fortieth year at the rate of one ounce every decade. Webster's continued to grow till the day POSTMASTER Even his skull increas ed in size, as if to make room the brain.

The heaviest brain of which there s accurate record was that of Turgenieff, the celebrated Russian Indet novelist. It weighed 71 1-3 ounces, nearly ten ounces more than ffebster's.

Cuvier, father of modern comparative anatomy, a man of gigantic inteliect and ceaseless activity, had a big brain. It weighed 65.7 ounces or 1 1-5 ounces more than Webster's. Byron had brains to spare. His erebral organs were nearly as large s Webster's weighing 63.8 ounces Schiller, another poet, owned 63,8 ounces of grey matter. While Dante still another, had 50.2 ounces, Gauss the great German mathematician, had a brain of 52.7 ounces. Professor Virchow has found a brain reighing 67.7 ounces, but its owner was absolutely without high mental levelopment.

Arriving home one evening a man found the house locked up. After many futile attempts at the various windows on the first floor by the floor by the first floor by the first floor by the first floor by the floor by windows on the first floor he finally climbed upon the shed roof and with much difficulty made entrance brough a second-story window. On the dining room table he found note from his wife: "I have gone out. You will find the key under

A LETTER TO MOTHERS.

Mrs. Jas. E. Harley, Worthington, gives permission to publish other mothers who have young chilmend them to other mothers. what I gave our baby to keep her in such even health, and I have replied absolutely nothing but Baby's 'Own Tablets, Now nearly every child ere gets the Tablets when a medisine is needed, and the old-fashioned trude medicines, such as castor oil and soothing preparations, which United States is twenty-eight and a mothers formerly gave their lit- half miles. tle ones, are discarded. Our family nedicine for children. Accept my

Baby's Own Tablets can be given ith absolute safety to the youngest, kills Marconi's hope of monopoly. railest child, and they are guaraned to cure all the minor ailments I little ones. Sold by all medicine alers or mailed at 25 cents a box willing the Dr. Whilams Medicine Brockville, Ont.

SECRET OF RADIUM HEAT. Suggested It May Be Supplied by

Ethereal Waves. What Prof. C. V. Boys termed "the niracle of radium" has naturally reeived much attention in scientific dircles. At the meeting of the sciof Dr Williams' Pink Pills to ence branch of the British Association Lord Kelvin, in a paper which e read, made an interesting sugges-Proof upon proof has accumulated thon in connection with its perpetual

He said that if the emission neuralgic pains banished, and the as would raise the temperature of poor dyspeptic given a new diges 400,000 grammes of water 1 degree Smiths and Mrs. S. was desirous of the siege of Cownpore. tion when it seemed almost hopeless centigrade. It seemed utterly im- duly to expect a cura. Here is a bit of possible to Lord Kelvin that this all might have gone well but, for strong proof that Dr. Williams' Pink would come from the store of energy Tommy Smith who had been al- bell herself): 'George, you must not years of suffering. Mr. Louis Brien 10,000 hours. It seemed, therefore, is a well known resident of St. Di- absolutely certain that the energy dace, Que., and tells of his years of must somehow be supplied from withsuffering as follows: "Eleven years out. He suggested that ethereal

I had frequent lits of vomiting, by the following comparison: Supwhich caused much distress. Some- pose a piece of white and a piece of times I could work, and then again black cloth, hermetically sealed in for months at a time I would be similar glass cases, were submerged himself to the door. Before he op- life. wholly unable to do anything; but in similar glass vessels of water and ened it, however, he turned. even at the time I could work I was exposed to the sun. The water in always suffering. At frequent times the vossel containing the black cloth of the old dining room curtains," I was treated by three doctors, but would be kept very sensibly warmer they were unable to help me. Then than that containing the white cloth. vanished. to Montreal and put myself Here the thermal energy was comunder the care of a doctor there. His municated to the black cloth by melicine relieved me while I was in- waves of sunlight and was given out

this time I was growing weaker and an energy travelling inward in vir- Tom-But the engagement is off. less able to resist the inroads of the tue of the waves of light and out- I'm not going to marry her or any trouble. Then Dr. Williams' Pink ward through the same space in vir- one else. Pills were brought to my notice, tue of thermal conduction.

and I began to use them. From Lord Kelvin suggested that experithat time I began to regain my ments be made comparing the heat health and by the time I had used emission from radium wholly surthirteen boxes I was once more a rounded with thick lead with that Truth is a stranger that a gowell, strong man. The proof of this found in the surroundings hereto- many people don's care to meet. work as anyone and never have the

WRITING BY TELEGRAPH. A new form of the "facsimile teleed at the receiving end, has been in-

Co., Brockville, Ont. See that the currents transmitted. govern the full name, "Dr. Williams' Pink Pills movements of a small mirror which. for Pale People," is printed on the by the aid of a beam of light, concentrated to a point by lenses, produces the writing on a sheet of Some sensitized paper, the point of light following exactly the movements of the point of the pencil at the other end of the line.

AFTER YEARS OF SICKNESS

DODD'S KIDNEY PILLS CURED HIM.

Plain Statement of a New Bruns-

Lower Windsor, Carleton Co., N. B., Sept. 28. (Special)-T. H. Belywidely respected, is happy in the He has given to Ames College

him for years. m for years.
"I have been bothered with Kidney growing.

are the right medicine for Kidney is said to be an excellent is doubtless inherited claimed to do."

one can have Bright's Disease, Lum- Empress of Russia, is said to be the bago, Rheumatism, Dropsy or Pain collecting of perfumery bottles.

ARTIFICIAL MARBLE

A new process for making imita- er dates from the end of the twelfth the following letter for the benefit of tions of statuary marble, onyx and century. It is 345 feet high. other multicolored stones has been The German Kaiser's belief in the dren in their homes. She says:-"I devised in Europe. About 1,000 value of public display is shown in have many reasons to be grateful to parts of valum to from 10 to 100 the announcement that the Berlin Baby's Own Tablets, and to recom- parts of heavy spar (barlum sul- Tiergarten is soon to have fourteen Our phate) and 100 parts of water, are new monuments. His influence for little girl is now about fourteen mixed with the requisite pigments, the erection of public monuments has months old, and she has taken, the and the liquid mass is boiled down had a pronounced effect in Germany. Tablets at intervals since she was and cast in a mold. The amount of Among the famous men to be comtwo months old, and I cannot speak heavy spar used varies with the dememorated in the new status are too highly of them. Since I came gree of translucence desired. After Moltke, Roon, Wagner, Haydn, Mohere about a year ago, every mother being molded and dried the artifiwho has small children has asked me cial stone thus produced can be pol' and Blumenthal. ished and finished as desired.

RAILWAYLAND TELEGRAPH. The deficit on account of the Bri-

tish postal telegraph is \$4,500,000 for the year.

ets, and says they are a wonderful tion building at the world's fair. hanks for all the good your Tab- just closed in Berlin declared un- inscription: "To the memory of dear. ets have done my dittle one, and I animously in favor of making wire-old Rover." ope other mothers will profit by my less telegraphy the business of the There has arisen in Germany a

Minard's Liniment Cures Colds, etc.

Too many cooks spoil the policeman's digestion.

Results from common soaps: Men," who live out of doors nearly eczema, coarse hands, ragged clothing. Its apostle, Gustav Nagel,

REDUCES EXPENSE

GAVE THE SECRET AWAY. There was a dinner party at the ent parts in all his campaigns, from Then he could hold out no longer your presence. treble was raised.

have another piece I shall tell." "Leave the room, sir !" stormed Smith, senior, and obediently Tom- leader of the Dutch party in Cape "My knickerbockers are made out and he swung open the door and

DIFFERENT BRANDS. Jack-I hear you are going

Jack-Indeed! Then allow me to congratulate you on your good

. Truth is | a stranger that a good

Catarrh Cannot Be Curea with LOCAL APPLICATIONS, as they with LOCAL APPLICATIONS, as they cannot reach the seat of the disease. Catarrh is a blood or constitutional disease, and in order to cure it you must take internal remodies. Hall's Catarrh Cure is taken internally, and acts directly on the blood and mucous surfaces. Hall's Catarrh Cure is not a quack medicine. It was prescribed by one of the best physicians in this country for years and is a regular prescription. It is composed of the best blood purifiers, acting directly on the mucous surfaces. The perfect combination of the two ingredients is what produces auch wonderful results in curing Catarrh. Send for testimonials free.

F. J. CHENEY & CO., Frops.,
Sold by druggists, price 75c.

Sold by druggists, price 75c. Hall's Family Pills are the best.

PERSONAL AND GENERAL.

Interesting Miscellaneous Paragraphs. One-half the time of Count Tolstoy. ecciving visitors.

Walther Kuntze, of Halle, Germany, ho has been and dumb from his birth in 1869, has taken out the try cannot do better than put some you cure him?" Dr. Pills: degree of doctor of philosophy at the of it in such a staple industry as moved the cause of the trouble Leipzig University.

Rome has a water supply of 200,-

wick Postmaster Whose Kidney whose health has lately been report- hater." Pains Have Gone Never to Re- ed as failing rapidly, is to have a cataract removed from one of his

his writing. ea, postmaster here, well known and er in the promotion of agriculture. discovery of a permanent cufe for silver and onyx trophy, which is to the Kidney pains that have troubled be awarded annually for seventy-five years, for the best results in corn

Trouble for years," Postmaster August Wilhelmi, father of the Belyea says: "I have tried many famous violinist of the same name, medicines and plasters without gett-recently celebrated his ninetieth birthing any lasting benefit till hearing day. He was a friend of Liszt, Dodd's Kidney Pills so highly spok- Wagner, von Bulow, Raff, Rubinstein

was.
"I believe that Dodd's Kidney Pills Princess Ferdinand, of Roumania,
the right medicine for Kidney is said to be an excellent violinist: from her father, the late Duke of strenuous corn on his toe. Dodd's Kidney Pills cure the Kid- Coburg, who was devoted to music. neys and with healthy Kidneys no Her pet hobby, like that of the late

in the Back. Thousands will tell The famous clock tower of Chartyou this out of their own exper- ers cathedral has just been successfully restored. For many years it had been crumbling, and a fear was entertained that it would fall, like the Campanile of Venice. The tow-

zart, Beethoven, Helmholtz, Zeller,

In one of the harness rooms at Sandringham, King Edward's country seat, is a row of polished hoofs, each with a horse's name inscribed upon it. These are relics of favorite horses of the King's and Queen's. Their majesties also have myond dogs, it seems, and although King Dedward has not gone to the length the Great of Prussia. The average railway journey in the Their majesties also have favorite doctor also strongly praises the Tab- will be a feature of the transporta- who gave his dogs elaborate interment at Sans Souci, there is at

> various governments as inland tel- movement directed against the egraphy now is in Europe., This "drinking song" - against "the muse as a handmaid of alcohol." The society that has taken this ground claims that much intemperance is caused by drinking songs, which paint the joys of the wine cup , so brightly. Another recent movement in Germany is that of the "Nature

all the time and wear virtually no clothes, shrunken flannels. has a mud hut on the outskirts of Berlin. He has won some lifty converts, but, alas! he sells his photo-

> Lord Roberts will be unable to visit the United States this fall. His change of plan is necessitated by the postponement | of the British army manoeuvres until the middle of September and by the situation in Somaliland, which demands attention. It is interesting that years ago Lord Roberts chose the figure of a Highlander for one of the supporters of coat-of-arms. The reason is

that Highlanders have had promin-

lowed at the table on condition that come into this house to-night. If he behaved himself. Wonderful to you love me, darling, fly at once, say, he did so till dessert came on, and do not let my father discover George (tragicalago, while working in the bush. I waves might in some way supply entired myself and brought on ter- dry to radium while it was emitting was refused and then the childish wreck our happiness? Speak, girl, and he asked-nay, demanded-a ly): "Oh, Maud, my darling! What speak !" Maud (tearfully): "Father "Very well," he said, "if I can't has just had the gas bill."

J. H. Hofmeyer, for many years

ANOTHER BIG INDUSTRY.

Wire Company Erecting a Plant to Turn Out 100 Tons of Wire Daily Trade.

Looking for the Northwest Whilst wird is an article that is used by everybody, it is amazing how few people know anything about its manufacture. This observation is prompted by the reading of a neat pamphlet entitled "Wire, Its Manufacture and Uses," circulated free by the North-American Securities Company, Temple Building, Toronto. It contains a complete history of the wire industry, and a description and half-tone engravings of the various processes and machines used in the manufacture of wire and its immediate products, such as wire fencing, wire nails, etc. The book, which is mailed free on application, also contains a description of the plant of the Imperial Steel & Wire Company, Limited, now in course of erection at Collingwood. This company is erecting at that point one of the finest wire plants on the continent. The ultimate output will be 100 tons of wire daily; 500 skilled workmen will

be employed, and the ground area covered by the buildings will occupy. five acres. This company is offering \$40,000 of the first block of \$100,-000 of the company's stock for sale. The stock is \$10 shares cumulative preferred 7 per cent., with a bonus of one share common for every share of preferred. Some \$60,000 has already been subscribed. Those inter- you'll like it. ested in the vast industrial progress s devoted to answering letters and of this country should send for the Dr. Pills: "Yes, old Milyung pamphlet, and those who have sur- on the verge of nervous pros plus capital available to invest in all through worrying about the growing industries of

wire. 000,000 gallons a day, London only 160,000,000 and Paris 90,000,000. The average daily consumption of Greater New York is about 400,000,-000 gallons.

Jules Verne, the French novelist, on the literal price of the first state of the price of the literal price of "I don't know why it should sur- ENGLISH SPAVIN LIN!WE

eyes. He hopes to be able to resume in winslow's Sooth me Syrur has been used by his writing.

W. C. Whiting, of Iowa, is a believ-For Over Sixty Years wind colle, regulates the romach and howels, and is the sext remedy for Blarrhess. Twenty-five cents a bettle Sold by drugsist throughout the world. He sure and tak for "Miss. Winslow's Southing Synur." 23-74

Prue (engaged a week) : "George and I have never had a quarrel! Mrs. De Termined : "Oh, I think you ought to have due before you are married; otherwise you can't be quite sure whether you are going to have your own way or not!

Minard's Liniment Cures Distemper.

A man never fully realizes what a big world this is until he is compelled to walk ten blocks with a

cules cardel in coms.

Does the baby talk yet?" asked a riend of the family. "No," replied the baby's disgusted little brother. the baby doesn't have to talk. "Doesn't have to talk?" "No. All the baby has to do is to yell and it gets anything there is in the house that's worth having."

ST. JACOBS POSITIVELY CURES

Rhoumatism

Nouralgia Lumbago Backache Sciatica Sprains Bruises Sorchess Stiffness



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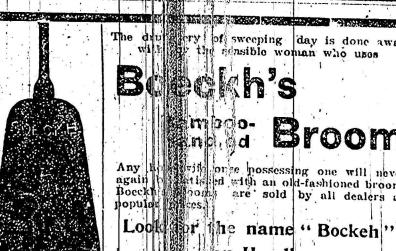
Oll Folk and Blue libbon Tea

Elderly It appreciate good tea. They're usually connected and know the most delicious

Blue bbon Ceylon Tea

is particularly old folks their exacting tastes and solaces them with the agreement and soothing power.

For Corts Black, Mixed



Buttons (western hotel) newcomer says you are st him." Proprietor (furiously) him I'll make him eat his world Buttons: "I did, sir, and h they would be better than not

Use Lver's Dry Soap (a pe to wash woolens and flank

or. Squills:

"I understand that visionary is regarded as being twenty ahead of his time." ed the grave-looking citizen. his landlord, and I know better that. He is about six months hind time."

Minard's Liniment Eures Eightin

Edith: "I though you had were fast friends." Nellie Edith : "And you ed to be." not now?" Nellie: "No." "What was his name?"

Stanstead Junction, P.:

12th Aug., 189 MESSRS. C. C. RICHARDS & C Gentlemen, I fell from the Uri leading from a platform of a lda car while assisting my men in loading a load of grain. The b went down as well as the load my back and I struck on the end the sleepers causing a serious in to my leg. Only for its being hard would have broken it. Ir hour could not walk a step. menced using MINARD'S Links and the third day went to Morti on business and got about well the use of a cane. In ten days nearly well. I can sincerly recomend it as the best Liniment lies

know of in use. Yours truly, The wise man has sense enough ake good advice, and generally

BOOK NOTICE.

-By W. H. Shaw.

THE STORY

BUSINESS SCHOOL

A terse description of Canada's lds ing business college, a school willich registers 1000 students a year, employ 12 regular teachers, and uses 100 type writers. The school also has a thou ough system of instruction by mail Complete courses are given in Book keeping, Shorthand, Typewriting Telegraphy and Illustration.
The book is descriptive of all, and enquirers is given FREE:

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W. H. SHAW, Presiden

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Broom with once possessing one will never atiand with an old-fashioned broom. are sold by all dealers at

on Handle.

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Targe and Wast Steamships. Superior accommodation brill classes of paracaptes. Siloons and Stateresoma arganidable. Special attention has been given to the Steopas State and Thurd Class accommodation. For Steam of paracapt and all particulars, apply to any agent State Company, or to passenger agent. SOMINION LINE OFFICES: Thate St., Boston. 17 St. Sagrament St., Muntreal

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oultry,

FRUITS And Farm Produce generally, consign it to us and we will get

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you good prices.

THE Dawson Commission Co., TORONTO.

FOR SALE

AUTOMOBILE TOURING Bir, new springs all round, machinsay not worn in the slightest, tires n w this spring, spring cushions, diplicate parts. For sale at great rifice. Cost \$2,5 Cost \$2,500. Box 7.

FOR SALE, CHEAP FOR CASH.

Juffalo pressure blower, No. 4-

hole walves-4 in flanged. Wobe walve-6 in. flanged. farl seam blower-10 in- inlet. len hanch cast iron reavers for

. in pipe. fron pulleys-30x12. Ifon pulleys-32x12. on pulley-22x6.

Iron pulleys-18x6. the an assortment of iron cone pulleys.

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