The address slip pasted on the top of this page has a date on it, if the date of the paper is later than that on the slip t is to remind the subscriber that he is taking the paper with out paying for it. See Publisher's announcement on 4th Page.

VOL. 21.

CHATHAM, NEW BRUNSWICK, APRIL 11, 1895.

D. G. SMITH, EDITOR & PROPRIETOR TERMS-\$100 a Year, in Advance

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Robert Murray BARRISTME-AT-LIAW, Notary Public, Insurance Agent, 270 and, 270. CHATHAM N B

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NYLLE FIRE INSURANCE COMPANY Warren C. Winslow. ATTO M N BY - AT-LAW olicitor of Bank of Montreal, CHATHAR N. B

Teacher Wanted. Napan, June 11 1894.

"THE FACTORY JOHN WCDONALD essor to George Cassady)

BAND AND SCROLL-SAWING.
Stock of DIMENSION and other Jumber THE EAST END FAGTO LY. CHATHAM, N. B

FOR SALE

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Merchant Tailor CHATHAM - - N, B All Kinds of Cloths, suits or single Garments pection of which is respectfully invited. F. O.PETTERSON.

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Black and Col'd Velveteens, Ladies' Cloakings and . . . Wool Shawls.

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Steam Engines and Boilers, Mill Machinery of all kinds; Steamers of any size constructed & furnished, complete. GANG EDGERS, SHINGLE AND LATH MACHINES, CAST-INGS OF ALL DESCRIPTIONS.

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House Coal, Steam Coal, and Blacksmith Coal.

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USSELL MCDOUGALL & CO, The Hard Times.

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ALL TRAINS ARE RUN BY EASTERN STANDARD TIME, D. POTTINGER, General Many Railway Office, Moncton N. S. 12 December, 1894

Miramichi Advance.

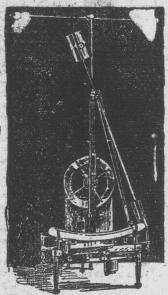
TO MEASURE THOUGHT.

THE NEW AND WONDERFUL CHRONO

SCOPE AND ITS WORK.

ful timing instrument in the world is called a pendulum chronoscope, and has excited widespread interest in the scientific

ally suggested by Prof. Charles B. Bliss, if the School of Pedagogy of the New



York University. The machine was made and perfected by J. J. Hogan, the head of the Mechanical Department of the Phys-chological Laboratory of Yale.

speed of a cannon ball can be determined by the new timer, and it will tell the lapse of time between the firing of a re-volver and the starting of a runner, or determine how long it takes a sparrer to deliver a blow. The new instrument is about two feet high and is mounted on silver and nickel. It cost about \$200 to

A simple description of this new instrument is that it consists of a pendulum and a pointer swinging independently on the same axie. The tip of the pointer swings along the face of a curved scale or indicator, which is so graduated that it shows the thousandth of a second. To measure the time required for the transmission of any given impression, a button is pressed and this sets the penduon the scale.

It has been demonstrated that on an average the reflex action for sound occu-

pies 0.130 of a second.

In making a slight test when pies 0.130 of a second.

In making a slight test when the pendulum comes in contact with the pointer a black shutter is raised from a light disk. As the disk flashes on his sight the subject touche the button and the pointer is at once stopped. It has been found that .300 of a second is the average time between the exposure of the disk to the sight and the pressure of the button.

When a test for discrimination is made the lifting of the shutter may show either when a test for discrimination is made the lifting of the shutter may show either a blue or yellow disk. The button is to be pressed by the subject if the dial is blue; if it is yellow the button is not to be touched. Tests show that on an average it requires about .010 of a second additional to discriminate colors.

The Hype chronecope is the one that The Hipp chronoscope is the one that has hitherto been in use, but it is controlled by delicate clock-works and is easily

Some scientists, among them Prof. Scripture of 'Yale, maintain that muscular movements are in the domain of psychology proper. Quickness, steadiness and acturacy of movements are regulated by the will, and Prof. Scripture said that students should be trained to be guick of the script.

that students should be trained to be quick of thought.

Baseball, football and other athletic games he includes in psychology. "One of the greatest psychological studies," he said, "was the game of football." The reason a certain college was defeated for so many years was because of the bad effect on the wills of the players of previous defeats and the conviction of the onlookers that that team would be defeated.

The Power of Imagination, The Power of Imagination,
Dentists have a splendid opportunity of
studying the power of imagination. A
Toronto practitioner by way of illustration tells about one of his women patients. She entered, accompanied by her
husband, and pointing to her swollen face
asked the dentist to extract the offending
tooth. He placed her in the chair and
taking the small hand glass which dentists use put it in her moult for the purpose of examining the molar which was to
be extracted.

The glass had no sooner touched the

The glass had no sooner touched the The glass had no sooner touched the tooth than she uttered a frightful scream and, bouncing out of the chair, rushed out into the waiting soom, crying that her jaw was broken. The united efforts of her husband and the dentist were for some time unable to persuade her that the tooth was not extracted and that she could not possibly have been hurt. After examining her mouth with the aid of the glass she finally became convinced that the tooth was still in its place. Taking her seat in the chair again she submitted to the operation of extracting the tooth without a murmur and expressed her surprise that the pain was so slight.

Burning Coal Dust,
An apparatus for burning coal dust has been invented and brought out in Germany, which is said to consume the most inferior class of material with no smoke, while the heat produced is so intense that the apparatus has been adapted in Berlin for smelting purposes, with excellent re-

THE CITY OF GLASGOW A British Lifeboat Which is a Very De-

Attempts made from shore to re Attempts made from shore to rescue people on a wrecked ship are almost always, in the nature of things, made in a rough sea. To propel a lifeboat with oars under such circumstances is exceedingly difficult, and sometimes well-nigh impossible. Then, too, aside from the uncertainty of reaching the unfortunate people on the stranded vessel at all, there is the element of delay when every moment counts. It is not surprising therefore. counts. It is not surprising, therefore, that the use of steam for motive power on these boats has long been under consideration. But such a plan would have to encounter this disadvantage: In rough to encounter this disadvantage: In rough weather a screw propeller would continually be coming up out of the water as the boat pitched and her stern was pitched high. A small craft would be even more subject to this trouble than a big one. Accordingly, a fear that the machinery might give way at a critical moment, through the racing of the engines, has

stood in the way of the adoption of steam for lifeboats until very recently.

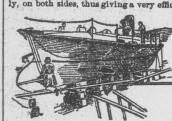
When the experiment was finally tried it was decided to apply the power not by a screw but by a jet of water, forced out of the boat astern. In this way the thrust could be exerted from a point on the hull, which, being about one-third of the boat's length forward of the rudder, would at no instant be thrown up out of the sea. Jet propulsion is not as effective a method of using steam as paddles or a screw. It would be a waste of energy, therefore, to employ it in comparatively smooth water, or for long voyages. It is not adapted to pleasure craft, naval launches nor ocean steamships. But for lifeboats, which are seldom used except in a storm, and then only for a short trip, the ability to push ahead securely and resistlessly, even at a moderate pace, more than compensates for the extra coal and steam consumed. When human life is at stake, governments and benevolent associations which conduct rescue service of this class are willing to sacrifice economy for efficiency. The first vessel of this type ever constructed was the Duke of Northumberland, completed scarcely more than three years ago, for the Royal Lifeboat Institution (British). Some doubts were entertained as to the result of the venture, but subsequent experience, in the course of which she has been out stood in the way of the acopern of steam

were entertained as to the result of the venture, but subsequent experience, in the course of which she has been out twenty-eight times and saved fifty-one lives, has disposed of them. A second boat, the City of Glasgow, has now been built on the same general model, but with several improvements on the original design.

l design.

The dimensions of the two boats are as follows: Length, old one, 50 feet; new, 53; beam, 14 and 16 respectively; draught, when loaded, 3¼ and 3½; displacement, 26 and 30 tons. The Duke's engines developed 170 horse power, while the Glasgow's will give 200. Both have Thorneycroft water-tube boilers, for the rapid genera-tion of steam; and in both the jets are forced outward by a 30-inch horizontal turbine, drawing its supply from a vertic-al well nearly amidships. In addition, the Glasgow has two powerful centrifugal pumps, which may be driven directly rom the crank shaft, if the turbine out of order. The Duke deli

out of order. The Duke delivered two jets sstern (one on each side of the hull) and we forward (when necessary). But the



anip, collision with which through the action of the waves might result disaster-ously. During her recent preliminary trials the City of Glasgow turned a com-plete circle in 5 minutes 5 seconds with-out the use of the rudder and with only out the use of the rudder and with only one jet going astern. But with her steering gear in service and both jets going astern, she turned a circle in 1 minute 26 seconds. Going at full speed she stopped and started astern in 20 seconds. This boat, by the way, is divided lengthwise and crosswise into thirteen water-tight compartments, and should one of them be stove in it would be practicable to connect the centrifugal pumps therewith, so as to utilize the inflow from the boat's

According to some official data just published at Helsingfors, the Finns would-appear to suffer very considerable annual losses from the ravages of wild animals. During the ten years ending 1891 those losses are recorded as follows: 1,447 horses, 7,823 cattle, 55,756 sheep, 1,621 swine, 28,-1934 bade for rainders, 28,487 forther strength and of rainders, 28,487 forther strength and provided the strength and control of 7,823 cattle, 55,766 sheep, 1,621 swine, 28,764 head of reindeer, 22,457 fowls, geese, ducks, turkeys, etc., the total approximate value of which was about two and a half millions of roubles. During the same period there were killed 1,094 bears, 1,209 wolves, 4,158 lynxes, 47,281 foxes, 727 gluttons, 3,435 otters, 1,433 martens, 18,660 ermine, and 55,657 birds of prey, such as ceedes, hawks, etc. ermine. and 55,657 birds of prey, such as eagles, hawks, etc.,

From the latter group of figures it will be seen that the Finns wage a constant and energetic war against the wild fauna. The numbers of bears and lynxes have decreased, but foxes and other small wild animals appear to be increasing.

The British sportsman, writes our correspondent, would find a perfect paradise in Finland. It is not so far afield in these letter days of small transit and one could

latter days of rapid transit and one could not desire more kindly natured and hos-pitable hosts than the Finns.—London Daily News.* Growth of Cremation, A large number have become converted to cremation on sanitary grounds. In Europe there are crematories in Dresden, Breslau, Milan, Lodl, Brescia, Padua, Rome, Gotha, Denmark, Belgium, Switzerland, Holland, Sweden, Norway, Parisand England. The first cremation in the United States was on the 6th of December, 1876, the body being that of Joseph Henry Louis Charles, Baron de Palm. The cremation took place in Washington, Pa., At this time there are crematories at Washington, Lancaster, Pittsburg and Philadelphia, in Pennsylvania; Brooklyn and Fuffalo, in New York; Detroit, Mich.; St. Louis, Mo., and in San Mateo County and Los Angles, Cal.—San Francisco Call. A large number have become conve

"I suppose," said Mr. Gratebar, "that really the man who attains the greatest possible enjoyment of life is the man who finds his greatest happiness in work, but how few of us these are that are ambitious in that direction!"—New York Sun,

Some of the well-known clubs keep the salary list a secret, but as far as is known the distinction of paying the highest retaining fee belongs to the Everton Football Club, which, in one case of a professional leaving the Blackburn Rovers to join their club, agreed to pay him £250 down and £5 a week. The Sutherland Club is not far behind, and to secure a Scotchman, a player of repute, gave him Scotchman, a player of repute, gave him his own terms, which were £160 down, £150 a year and a situation of £70 a year 2150 a year and a situation of 270 a year in a shipbuilding yard.

Then two clubs, at present the leading clubs of the Association Football League, have the reputation of paying the highest retaining fees, and also securing the biggest gates. Most, if not all, of the league clubs flud it requisite to pay substantial sums to secure professional players, of which their respective teams for league matches entirely consist. There are 450 registered professionals in connection with the league clubs whose wages range from 22 10s to 25 a week.—Ti: Bits.

General News and Notes. Diligence is the mistress of success.

Crimes shock us too much; vices almost

RHEUMATISM CURED IN A DAY:—South American Cure for Rheumatism and Neu ralgis radically cures in 1 to 3 days. Its action apon the system is remarkable and mysterious. It removes at once the cause and the disease immediately disappears, The first dose greatly benefits. 75 cents. Warranted by J. Fallen & Son. Riches got by deceit, cheat no man so

much as the getter. Riches got by fraud are dug out of one's own heart and destroy the mind.

owards becoming better than you are.

pring, you will vainly look for fruit on ITCH, on human or animals, cured in a mautes by Woodfod's Sanitary Lotiens, Warranted J Pallen & Son.

Too much is seldom enough. Pumping after your bucket is full prevents its

If your divines are not philosophers, your seophers will neither be divine, nor able

A Wonderful fiesh Producer.

This is the ittle given to Scotts Emulsion of Cod Liver Oil by many thousands who have takeit. It not only gives flesh and strength by virtue of its own nutritious properties, but creates an appetite for food Use it and try giour weight. Scott's Emulsion is perfectly palatable. Sold by al Druggists, at 50e. and \$1.00.

over past errors avail nothing, A rational, moral being cannot, without infinite wrong, be converted into a mere instrument of another's gratification

world always behind her. A great step is gained, when a child he between liking a thing and doing it.

guilt, and oftener assailed. The finest composition of human natur

s well as the finest china, may have a flaw it, though the pattern may remain All virtue lies in individual action, i

award energy, in self-determination. The Sudden resolutions, like the sudden ris f the mercury in the barometer, indicate little else than the chargeableness of the

The difference between heathen virtue an Christian goodness is the difference between oars and sails, or rather between galleys

Motels.

ADAMS HOUSE

THOMAS FLANAGAN. CANADA HOUSE. Corner Water & St. John Streets, CHATHAM

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Sample Rooms. GOOD STABLING on the premises. Daniel Desmond,

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Family Groceries a Specialty ROGER FLANAGAN.

Tenders for Stock. Tenders will be received by the undersigned up to and including Saturday, March Soch Inst. for the stock in trade belonging to the entate of Thos. A. Clark, Newcastle.

Stock consists of Dry Goods, Clothing, Htts. Cape, etc. Parties tendering to stare whether payments will be made in cash or approved enlorsed notes. notes.

The highest or any tender not necessarily

A. R. MELROSE, Trustee, P. O. Box 258, Newca JAMES HUDSON ESTATE.

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All persons having any just claims against the estate of the late James Hudson of Weldfie parks in Ghatham, Norrhumber and Qu., decease, and Swollen Throat, Coughs, etc., Save \$50 byuse of one bottle. Warranted the moswonderfu BlemishCure ever known. War anted by J. Pallen & Son.

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TOGETHER WITH THESE I HAVE ON HAND A FINE ASSORTMENT OF

TOILET SOAPS,
HAIR BRUSHES,
WHISKS,
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NAIL BRUSHES,
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AND COMPLEXION POWDER.

Fine Lot of Pipes and Cigars always on hand. Newcastle Drug Store. E. LEE STREET.

Stop that CHRONIC COUGH NOW! For if you do not it may become consumptive. For Consumption, Scropida, General Debility and Wasting Discuses, there is nothing like

Of Pure Cod Liver Oil and HYPOPHOSPHITES It is almost as palatable as milk. Far SCOTT'S EMULSION is put up in a salmon color prapper. Be vere and yet the geneine. Sold by all Dealess at 50c. and \$1.00. SOOTT & BCWNE, Delleville.

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Barrel Heading. GOOD STABLING. &C. Matched Flooring,

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THOS. W. FLETT, NELSON.

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in the following lines, viz :ixed Candy, uts, Grapes, Lemons Rasins, Currants, Citron and Lemon Peel. Flavoring Extracts and Pure Spices, and other Groceries, A nice line of

gift cups & saucers Mugs, Lamps, and a General assortment of Glass and Earthenware &c. ALEX. MCKINNON

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GRIST MILL and are now prepared to give quick returns to a large ammount of customers. They will also be prepared to grind buckwheat in a short time RUSSEL McDOUGALL & CO

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Rosewood, Walnut, etc., Coffin findings and Robes supplied at the very lowes ates. Pall Bearers' outfit furnished. James Hackett, Undertaker

NEW GOODS,

FLAKE ROLLED PEAS. FLAKE WHEAT. FLAKE OATS. FLAKE BARLEY. GRAHAM BUCKWHEAT, WHEAT FLOUR; HUNGARIAN FLOUR. HARD MANITOBA WHEAT. WHEAT FLOUR FROM HIGHEST W S. LOGGIE COY' LTD

Health Restored

ALL RUN DOWN

CURED BY USING Ayer's Sarsaparilla

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AND IRON,

50C BOTTLES WE GUARANTEE IT AT

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Trimmings, etc. GENTLEMENS' GARMENTS f all kinds cut and made to order on the prem-sew, with quickest despatch and at reasonable LADIES' COATS & SACQUES

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The Keary House, Bathurst, which is a mose estrable hotel for a profitable business. The hote is pleasantly situated, fronting the harbor and i ell patronized by summer tourists.

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Final and Unreserved

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TERMY:—Ail sums under \$15.00, cash. Fifteen to forty dollars, three months, all sums over \$40.00, four months on approved joint notes.

No Strength nor Energy Miserable EXTREME. Hands COVERED SORES

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THE BEST TONIC AND **BLOOD MAKER**

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