

THE STAR ST JOHN N. B. TUESDAY, AUGUST 20, 1907.

EXCELLENT SCHOOL SHOES!



WATERBURY & RISING.
King St. Union St.

WE HAVE

Lace Curtains from 60c pair up;
Sash Muslins, Frilled Edge, 14c yard;
Large White Bed Spreads, only \$1.25 each.

A. B. WETMORE, 59 Garden St.

\$50.00 COLUMBIA

Peer of them all in beauty and tone.
Get our catalogue or call for a demonstration.

MARITIME PHONOGRAPH CO.,
Wholesale and Retail,
32 DOCK ST.

SNAP—FOR EVERYBODY!



ANTISEPTIC HAND-CLEANER

BETTER AND CHEAPER THAN SOAP.
Removes Grease, Ink, Fruit Stains, Etc.
15 Cents Tin. 2 Large Tins, 25 Cents
FOR SALE BY ALL DEALERS.

MERRY DEL VAL ASSAULTED

Papal Secretary of State Attacked by Anti-Clericals in Marino.

CASTEL GANDOLFO, Italy, Aug. 16.—As Cardinal Merry del Val, the Papal Secretary of State, was on his way to his summer residence at Castel Gandolfo, he was surrounded by a mob of anti-clericalists and assaulted.

An inspector of police and others hastened to the spot and prevented the Cardinal from being injured. One policeman was seriously wounded in the fracas.

The outrage is considered the beginning of an organized anti-clerical campaign and the police precautions have been increased.

PERSONALS

Alexander Corbet, manager of the Union Clothing Co. is progressing favorably after undergoing a serious operation in the private hospital.

Miss Eva Rooney, of Moncton, spent Sunday with her friend, Miss May Woolley at 3 Hazen street.

Mrs. George Morris, of Philadelphia, is the guest of Mrs. Joseph Henderson, 60 Carmarthen street.

Mrs. E. J. Armstrong and Master Jack are visiting friends at St. Andrews and St. Stephen.

A CUNNING CANINE.

From The Canadian Courier.

There is a worthy citizen of Toronto who is possessed of a dog by the name of Jerry, which is a good deal better than human in the quality of faithfulness. Jerry invariably takes his master home, and has been known at times to assume the part of guide, when his owner has temporarily mislaid the name of his street and the number of his house.

Recently Jerry's superior intelligence was put to satisfactory proof. Mr. Blank, his master, was spending the evening with a few choice friends at Jackson's Point, and in the course of conversation they resorted to a game consisting largely of picking up chips. Jerry was outside and, becoming impatient at the hours went by, determined to call his master's bluff.

He barked so loudly and so long that Mr. Blank's friends urged him to send Jerry home. But Mr. Blank knew his dog better than that. He stepped quietly to the door and called in explanatory tones:

"All right, old man! I'll be out in a minute." And Jerry, recognizing in some mysterious fashion that his master had a royal flush, subsided into silence until the game was over and his services were required.

THE TRANSFORMED

BY THAGOREAN.

Some undergraduates once wished to play a practical joke upon a man who was a disciple of Pythagoras, so one day when he was a little sleepy by reason of the amount of brandy and soda that he had imbibed his friends smeared him with honey and rolled him in the inside of a feather bed. When the disciple of Pythagoras got up in the morning he looked in the looking-glass at himself and said slowly, with a whistle, "Bird, by Jove!"—London Telegraph.

FIRST SUBMARINE

INVENTED IN 1775

Made by an American Named

David Bushnell

Several Unsuccessful Attempts Made to

Sink British Men of War Owing to

Inexperienced Operators.

The first submarine craft which really navigated under serious conditions was the invention of an American, Daniel Bushnell, of Saybrook, Conn.

Bushnell was graduated from Yale in 1774, and in the same year completed the submarine vessel on which he had been at work since 1771. He does not seem to have named the boat himself, but it has come to be known as the Turtle because of its shape.

The entrance to the vessel, says a writer in the Navy, corresponded to the opening made by the shells of a turtle shell at its head. The boat was about seven and a half feet long and six feet deep; large enough to contain the operator and sufficient air to last him half an hour.

It was ballasted chiefly with permanent lead ballast. In addition to this a mass of lead, 200 pounds in weight, could be let down forty or fifty feet below the vessel, enabling the operator to anchor or to rise quickly to the surface in case of accident.

A water gauge, illuminated by means of a cork with phosphorus on it, which floated on the water within the gauge, registered the depth of the Turtle. By means of a compass, also illuminated with phosphorus, the operator was able to direct the course of the vessel.

An air formed on the principle of an old-fashioned screw was fixed in the forward part of the Turtle. The operator by turning it in one direction could propel the vessel forward, or in the other could propel it backward.

Another cork placed near the top of the Turtle, worked on the same principle. By means of the latter the operator, after having established the equilibrium of the vessel, could move it either upward or downward. A rudder in the afterpart of the Turtle could be used for steering.

A SMALL CRAFT.

The entrance to the boat was elliptical and so small to barely admit one person. It was surrounded by a broad elliptical iron band, the lower edge of which was let into the wood. Above the upper edge of this brass iron band was a crown, resembling a hat. It shut watertight upon the iron band, to which it was hung with hinges turning over sideways when opened.

In the crown were three round doors, one directly in front and one on each side, and large enough to put the hand through. These were opened admitted fresh air. Their shutters were ground perfectly tight and were hung with hinges. There were several glass windows in the crown for the admission of light and two air pipes.

A ventilator drew fresh air through one of the pipes and discharged it at the bottom of the vessel. The impure air escaped through the other pipe. Above the crown were used only when the turtle was floating on the service of the water. The valves opened automatically when they came out of the water and closed as soon as they entered it.

When the operator wished to descend he placed his foot on the lever of the valve, by which means he opened a large apparatus in the bottom of the vessel, thereby allowing the water to enter the tank. When a sufficient quantity had been obtained to cause the vessel to descend very gradually he closed the valve. The apparatus under this valve was covered by a perforated plate.

The water could be discharged from the tank by the brass force pump. When the vessel leaked, the bilge could be pumped out by a smaller pump. Everything in the Turtle was brought so near the operator that he could find in the dark what he wished to or to the left. A firm piece of wood was framed parallel to the short diameter of the vessel to prevent the sides from yielding. This also served as a seat for the operator.

In the fore part of the hull of the brass crown was a socket with an iron tube passing through it. At the top of the tube was a wood screw, fixed by means of a rod which passed through the tube. When the wood screw had been made fast by unscrewing it could be cast off by unscrewing the rod. Behind the vessel and above the rudder was attached a magazine composed of two blocks of cork wood, hollowed out so as to hold 150 pounds of powder. This was fired by a percussion device, timed by means of clockwork. A rope extended from the magazine to the wood screw.

HOW IT DESTROYED SHIPS.

To destroy a ship the operator was to submerge the Turtle, navigate it until it was underneath the ship that was to be destroyed, screw the wood screw into her bottom, cast off the magazine and move away. The magazine being buoyant would immediately rise against the bottom of the ship. The clockwork which fired it was started by the casting off of the magazine, and gave the operator time to retire to a safe distance.

Bushnell made many trials of the Turtle before sending it against a British vessel. He found it very difficult to obtain a faithful operator.

In the summer of 1776, when Admiral Howe lay with a formidable British fleet in New York Bay a little below the Narrows, Bushnell attempted to destroy one of his ships, the Eagle, of 64 guns. The operator whom the inventor selected to make the experiment was Sergt. Ezra Lee.

He had had little experience with the Turtle and was therefore inexpert. Lee, however, successfully navigated the Turtle under the Eagle. He attempted to fix the wooden screw into her bottom, but struck as he supposed a bar of iron, which passed from the rudder hinge and was spiked under the ship's quarter.

Two subsequent attempts were made with the Turtle against the British shipping. In one of these the operator succeeded in getting his vessel underneath a British ship, but the tide ran so strong the Turtle was swept away. Finally the British sank an American boat which had the Turtle on board.

The inventor afterward recovered his vessel, but did nothing further with it. His health was poor, and he was unable to obtain money and assistance with which to prosecute his experiments.

COMMERCIAL

TO PREVENT WATERING.
NEW YORK, Aug. 20.—Stock watering and over-capitalization by utility corporations in this city will practically be an impossibility hereafter as the rule adopted by the public service committee. The rule serves notice on such concerns, hereafter, to make any increase in the capitalization, they will have to throw open their books and that the most minute details will be required to be given before new bonds or share issues will be even considered.

Taft's speech had little effect.
LONDON, Aug. 20.—Secretary Taft's speech at Columbus, Ohio, last night, which had been somewhat discounted, caused only a momentary decline in Americans at the opening of the stock exchange today.

After being offered at 1-2 to 3-4 of a point below the New York equivalent, some good buying speedily wiped out the initial decline and imparted strength to the market, which under the lead of Pacific, by noon, advanced a point from the lowest quotations. Trading generally was quiet, consols were fractionally easier.

WALL STREET.

NEW YORK, Aug. 20.—Opening prices were slightly mixed but the changes either way were not important. Union Pacific which was up 2-8, and Reading off 1-13. The last named recovered its loss immediately.

MONTREAL STOCK EXCHANGE

Transactions.
(Furnished by J. M. Robinson & Sons, Bankers.)

MORNING TRANSACTIONS.

Morning Transactions from August 20th, 1907.

Montreal Street—50@118, 50@117 1/2, 50@118 1/2, 50@119, 50@119 1/2, 50@120, 50@120 1/2, 50@121, 50@121 1/2, 50@122, 50@122 1/2, 50@123, 50@123 1/2, 50@124, 50@124 1/2, 50@125, 50@125 1/2, 50@126, 50@126 1/2, 50@127, 50@127 1/2, 50@128, 50@128 1/2, 50@129, 50@129 1/2, 50@130, 50@130 1/2, 50@131, 50@131 1/2, 50@132, 50@132 1/2, 50@133, 50@133 1/2, 50@134, 50@134 1/2, 50@135, 50@135 1/2, 50@136, 50@136 1/2, 50@137, 50@137 1/2, 50@138, 50@138 1/2, 50@139, 50@139 1/2, 50@140, 50@140 1/2, 50@141, 50@141 1/2, 50@142, 50@142 1/2, 50@143, 50@143 1/2, 50@144, 50@144 1/2, 50@145, 50@145 1/2, 50@146, 50@146 1/2, 50@147, 50@147 1/2, 50@148, 50@148 1/2, 50@149, 50@149 1/2, 50@150, 50@150 1/2, 50@151, 50@151 1/2, 50@152, 50@152 1/2, 50@153, 50@153 1/2, 50@154, 50@154 1/2, 50@155, 50@155 1/2, 50@156, 50@156 1/2, 50@157, 50@157 1/2, 50@158, 50@158 1/2, 50@159, 50@159 1/2, 50@160, 50@160 1/2, 50@161, 50@161 1/2, 50@162, 50@162 1/2, 50@163, 50@163 1/2, 50@164, 50@164 1/2, 50@165, 50@165 1/2, 50@166, 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