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W. C. FEINDEL MIDDLETON, N. S.



Nineteenth Cable Under Atlantic Has Just Been Completed by the Western Union Telegraph Co.

FIRST OF ITS TYPE TO BE LAID

Called a "Permalloy" Cable—Represents Investment of Five Million
Dollars—Great Speed is Attained—
Possible Cable Rates Will be

Greenwich, England by the same company that made the first Atlantic cable to operate successfully, which was laid in 1866. In some places the cable lies in water three miles deep.

Reduced.

A new trans-Atlantic cable has just been completed by the Western Union Telegraph Co., and will be opened for business. This makes the nineteenth cable working under the Atlantic between North America and Europe, and is the first cable to land in Southern Europe, and is the first cable to land in Southern Europe, which in the past has had to be relayed in England or Ireland, thus saving considerable time in transit.

The new cable is what is known as a "Permalloy" cable, and is the first of its type to be laid. The copper core which carries the current, consists of seven strands and around it is wrapped a ribbon of permalloy. This latter is the most highly magnetic material known to science, having more than thirty times the permalloy is the gutta—percha insulation and eighteen galvanized steel sheathing wires for strength. The deep sea section is one inch in diameter. The new cable was manufactured at the latter of the cable was manufactured at the latter and the latter is the most highly magnetic material known to science, having more than thirty times the permalloy with gires for strength. The deep sea section is one inch in diameter. The new cable was manufactured at the latter of the cable with the new high speed of messages over cable five or six times, so that the new cable words by the old type cables. Permalloy works on the principle of the "loaded coil" used in long distance telephone circuits.

The new cable represents an investment of about five militions of dollars, and the laying of this new type of cable would work this long distance, 4,700 nautical miles, The engineers' calculations, and the labratory tests were all favorable, but it was not possible to tell until after the cable hab een laid and in operation, just what its capacity, or speed word be. Cables are laid by the manufactures and then turned over to the owners ready for operation. When this was done the Western Union engineers connected up the cable with the new high speed of messages over cable in the invention of Messages

dred, two hundred, and finally up to three hundred words per minute, at which speed the signals were recorded on the paper tape perfectly clear and well defined. At this speed, the signals passed an extraordinary severe test. By a specially designed apparatus, the cable was switched onto a printing telegraph machine, which turns out copy, the same as an ordinary typewriter. The result was c ompletely satisfactory. Heretofore this printing mechanism has been used on land lines only.

This speed is by no means the finit, for after a few at histments on the receiving apparatus the speed

This speed is by no means the init. For after a few all astments on the receiving apparatus the speed was raised to 350 worlds per minute with perfectly legible signals.

The Western Union had staked five millions of dollars on an experiment and won — what would have happened had the new cable proved a failure is too dreadful to contemplate—some officials would probaly have been looking for new jobs, and stockholders would have been minus some of their dividends. However all's well that ends well.

In the past, difficulty has been encountered in working cables at very high speed, on acount of induction from high tension power circuits, which are becoming so numerous. To

cautions were taken in the case of the new cable one was to carry a ground wire in a cable, one hundred miles out to sea, this serves as the ground connection of the new cable. This has liminated the difficulty experienced in the past of the cables being affected by disturbances caused by electrical power systems and atmospheric sources, from which stray currents are readily picked up by the very delicate machinery necessary to work the cables at high speed.

This is the first essential change

Department Special Attention, and can truthfully say that we have the most up-to-date, most moderated priced, and cleanest stock of Men's Clothing and Furnishings in the Annapolis Valley. It will be a pleasure to show you any goods whether you purchase or not. Call any time.

the circuit.

The Western Union now has eight cables under the Atlantic and these two new high speed cables will have the effect of practically doubling their trans-Atlantic cable capacity. It is altogether likely that the cable rates will be reduced in order to provide sufficient business to keep all the cables busy 24 hours a day, and seven days a week. The cable letters and week-end letters keep the cables going continuously now.

You have been intending to try "Red Rose." Why not now before you forget.

TEA"is good tea

The ORANGE PEKOE is extra good. Try it!

FREE SCHOOL BOOKS IN NEW

s your opportunity.

Lieutenant Governor at the opening general stock.—Henry George, of the New Brunswick Legislature, Lieutenant Governor at the opening of the New Brunswick Legislature, the following reference was made regarding free school books:

"During recess my Government has given serious consideration to the question of making provision for free school books, and after a thorough survey of the situation the decision has been reachel to provide, for the present, free books in certain grades of our public schools and it is hoped that a date not too far distant this system may be extended to more advanced grades than at present contemplated. To this end a Bill will be submitted for your consideration."—Spectator.

The ORANGE PEKOE is extra good. Try it!

The Alady staying in a hote! was frightered by a noise like that of a person running about in a room over the ones she occupied; The moise went on at intervals for two nights and then changed, as if the occupants on the floor above had gone mad and stock on the way, for the principal and then changed, as if the occupants on the floor above had gone mad and stock on the way, for the principal and then changed, as if the occupants on the floor above had gone mad and the way for the principal and then changed, as if the occupants on the floor above had gone mad and the occupants on the floor above had gone mad and the way for the principal and then changed, as if the occupants on the floor above had gone mad and the was skipping about. The lady did not believe in ghosts, but she was attained to the way for the principal and the occupants on the floor above had gone mad and the occupants on the floor above had gone mad and the clerk to investigate the mass of the floor above had gone mad and the clerk to investigate the mass of the mass of the staff of the Great Western Railway Magazine. "The avoidance of the staff of the Great Western Railway Magazine." The avoidance of the control of the principal and post o

and not for the purposes of any individual or party.—Dorman B. Eaton.

The ideal social state in not that in which each gets an equal amount of wealth, but in which each gets in proportion to his contribution to the



ALL THAT IS CHEERFUL LOOKING AND **ATTRACTIVE**

A group of cable operators could hardly believe their eyes, when the first tests were made recently. They saw the speed gradually increased from fifty words per minute, the standard cable rate, up to one hun-

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HEATHER SUITS, Standard Model \$15.00 DONAGLE TWEED SUITS, Sport Model \$16.50 HEATHER STRIPE SUITS, Two Button Model...... \$18.00 GREY, LOVAT and HEATHER HOMESPUN, Two Button Model . \$20.00 PLAIN STEEL GREY SERGE SUITS, Standard Model \$22.50 DONAGLE TWEED SUITS, Sport Model \$22.50 GREY TWEED SUITS, Two Button Model...... \$25.00 PLAIN GREY SERGE SUITS, Standard Model \$25.00 CHECKED WORSTED SUITS, Two and Three Button Models. . . \$28.00 BLUE STRIPE SUITS, Two Button Model \$30.00 BROWN STRIPE SUITS, Two Button Model \$30.00 PLAIN BROWN SUITS, Two Button Model.... ... \$30.00 We carry a very large assortment of Guaranteed Fast Color Navy Blue Serge Suits in stock. These are especially priced at\$25.00, \$28.00 and \$35.

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OIL SLICKERS \$ 8.95

Every man, young man and boy desires to be well dressed at Easter, and with this end in view, we feel certain that in our Gents' Department this desire can be gratified. Our showing depicts all that is new for men, youths and boys. Easter is a most opportune time to don a new Suit or Overcoat-and for Quality, Workmanship and price you can get just what you want at our store.



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The BROCK Hat



BIG-E-NUFF

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Black and Brown Cotton Hose per pair 19c Black and Brown Cotton Hose per pair 25c Black, Brown and Grey Lisle Hose per pair 45c

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EASTER

Easter is close at hand. This is a recognized season for the appear-ance of New Apparel. There will be something from our stock that you will need, and now is the time to get your requirements: Suit, Coat, Hats, Caps, Ties, Shirts, and many other things are here for your inspection. Let us help you solve the problem for Easter. We are always pleased to meet our friends at any time.

BENTLEY'S LIMITED, MIDDLETON, N. S.