Science and Invention

Deep Sea Temperatures.

The deep floors of the oceans everywhere are covered with a layer of comparatively cold water. In the Atlantic, Indian and Pacific the temperature of this "bottom water" varies from about 33 to 37 degrees Fahrenheit. In the polar seas it is below the freezing point—the bottom temperature of the Antarctic being about 31 degrees Fahrenheit, and in the Norwegian sea from 30.2 to 29.5 degrees Fahrenheit.

During the last Swedish Antarctic expedition Dr. G. Anderson recorded a bottom temperature between South Shetland and Graham's Land as low as 29 degrees Fahrenheit.

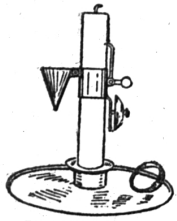
Bransfield strait, explored by him, repeats the typical hydrographical condition of all ice-bearing parts of the ocean—a superficial layer and a deep-water mass, both characterized by low temperature, and between them a body of relatively warm water. But this section shows two remarkable features, the intermediate warm current is here faintly developed, and in consequence a very large part of the section is occupied by the bottom water, the temperature of which is only 29.66 to 29 degrees Fahrenheit. The latter figure is but three-tenths of a degree Fahrenheit above the point of equilibrium between sea water and ice.—Montreal Herald.

Electrical Clock Regulator.

A new method of driving and regulating clocks electrically by the use of selenium cells has been devised by Herr K. Siegl. The selenium cell, by Bohmer, in an exhausted pear-shaped bulb, was placed in the focus of a parabolic cylindric mirror, so that the light from an incandescent lamp could impinge upon the cell whenever a seconds pendulum passed its lowest point, at which a slit in a card fastened on the pendulum coincided with a slit on a fixed screen. The effect on the selenium is made to actuate an electro magnet—placed just to one side of the point of highest velocity, owing to the lagging of the cell—so that an impulse is imparted to the pendulum at the right moment. Another selenium cell can be used for imparting motion to a series or other electrically operated clocks, which can be of the step-by-step type. A clock on these lines has given satisfaction and demonstrated that an electric clock without contacts can be made.—London Engineer.

Candle Extinguisher.

There is always great danger in carrying a lighted lamp, especially in going up or down stairs, and so many people realize this danger that they prefer to use candles. The device shown here is simply an extinguisher for candles, being adjusted to extinguish the candle after the predetermined amount of the light has been consumed. An alarm bell is attached to the extinguisher, so that it may be sounded a few minutes before the extinguisher can operate to enable the user to adjust it. The cone on the left of the candle is in the form of a hollow cone, pivotally hinged to the cylindrical bracket which is secured to the candle. A small prong projects upward from this bracket, resting against the candle, while another pivot pin on the opposite side presses into the candle a short distance above the prong. This pivot pin works in



Extinguishes the Candle.

connection with a striking head for the bell, so that when the candle burns to the pivot pin the latter is released, permitting the head to strike the bell. When the candle burns farther down to the prong, a coiled spring releases the cup, which rises and descends over the flame of the candle, extinguishing it.

George Stevenson of Dunedin, New Zealand, is the patentee.

Can See Bed of Stream.

Capt. Louis Larren, a Michigan sailor, has devised a pleasure boat with a glass bottom, which has under the bottom an electric light that can be used to illuminate the bed of a stream, not too deep, of course, and enable the occupants of the craft to take photographs of whatever may be interesting under water. There is also a hooded reflector which makes it possible to sit quietly in the bow or stern of the boat and see fishes or any form of aquatic life to which may happen to come near the transparent bottom of the boat.

Produces Gas Cheaply.

A German chemist named Blau, of Augsburg, has invented a method for the manufacture of fluid gas from the residuum of petroleum and heavy mineral oils. The inventor says this gas may be manufactured very cheaply where there is an abundance of petroleum, and that it may be transported from one place to another in cylinders as easily as carbonic acid gas. The gas may be used for lighting churches, halls and detached buildings, and small tanks may be used in lighting automobiles. The Blau gas makes a very brilliant light for street lighting and is very difficult to explode.

New Wireless Telegraphy Route.

It is claimed in Boston, by promoters of wireless telegraph, that a regular system of wireless communication between that city and New York, by way of Providence and New Haven will be in operation in about sixty days.

Men's Christmas Slippers

Velvet Embroidered, patent foxed.....50c, 65c

Imitation Alligator, black or chocolate, patent foxed.....50c, 65c

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Tan or Wine Kid Everett, heavy soles.....85c

Black or Chocolate Kid Opera, turn soles.....$1.00

Burnt Leather, Wine Dongola Kid and Black Calf, heavy soles.....$1.00

Black or Chocolate Kid Romeo, turn soles.....$1.50

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Boys' and Youths' Slippers.....50c, 75c

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A recent letter states that Moneybak in 19-inch width will be no longer manufactured. No reason for so doing is given, but we believe the demand is for the 24-inch Silk. The quality is magnificent, and fully guaranteed in every way against cracking, turning dingy or otherwise prove unsatisfactory.

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