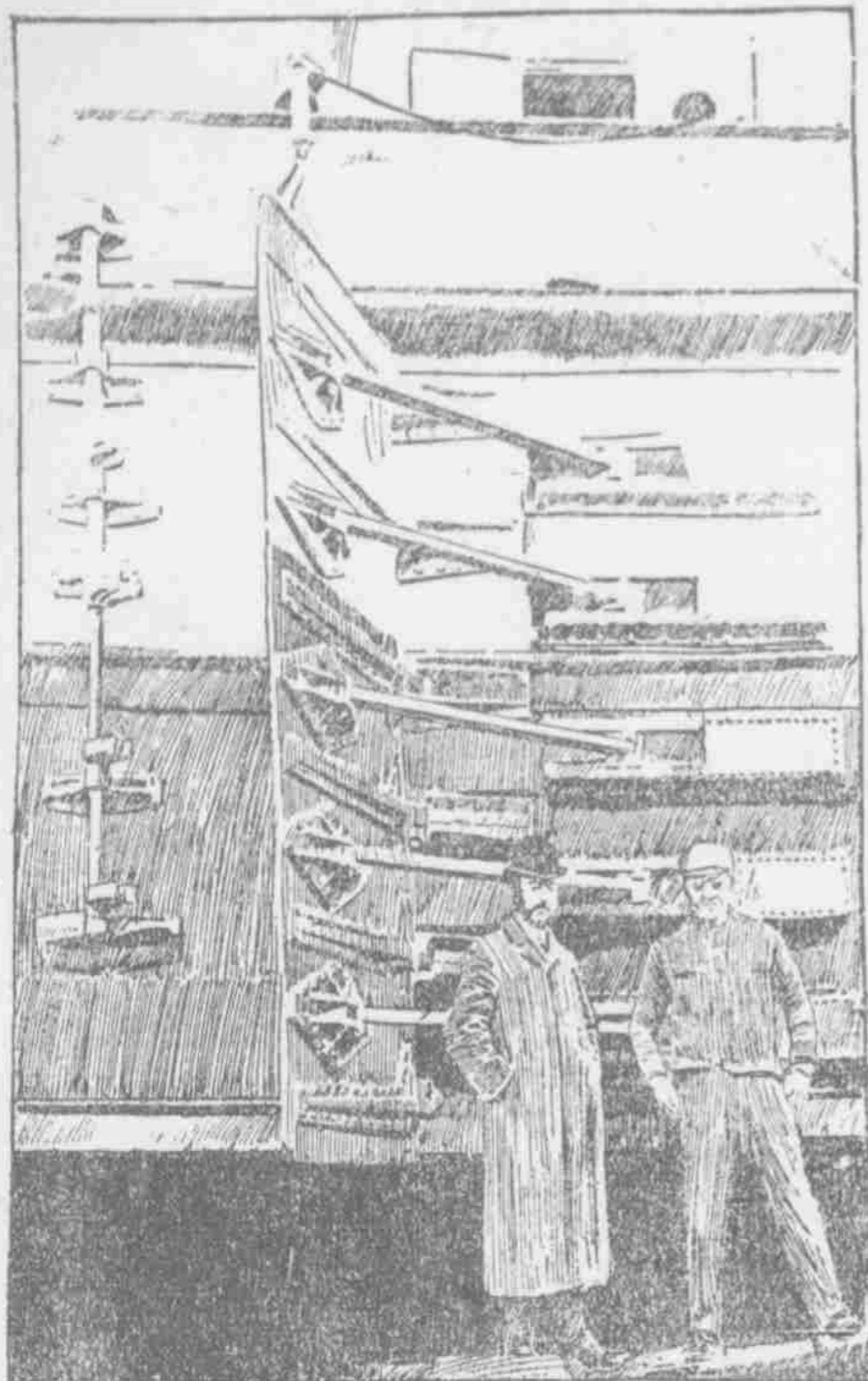


BRAKE ON SHIP.

Brought to a Full Stop in a Very Short Distance.

Mention was made some time ago in these columns of the experiments made on the St. Lawrence River with a ship brake, and there is now given here with a picture of the device, taken from a recent issue of the Scientific American. During the tests referred to the steamer was driven ahead at an indicated speed of eleven knots an hour. Steam was then shut off, and simultaneously, the brake on each side



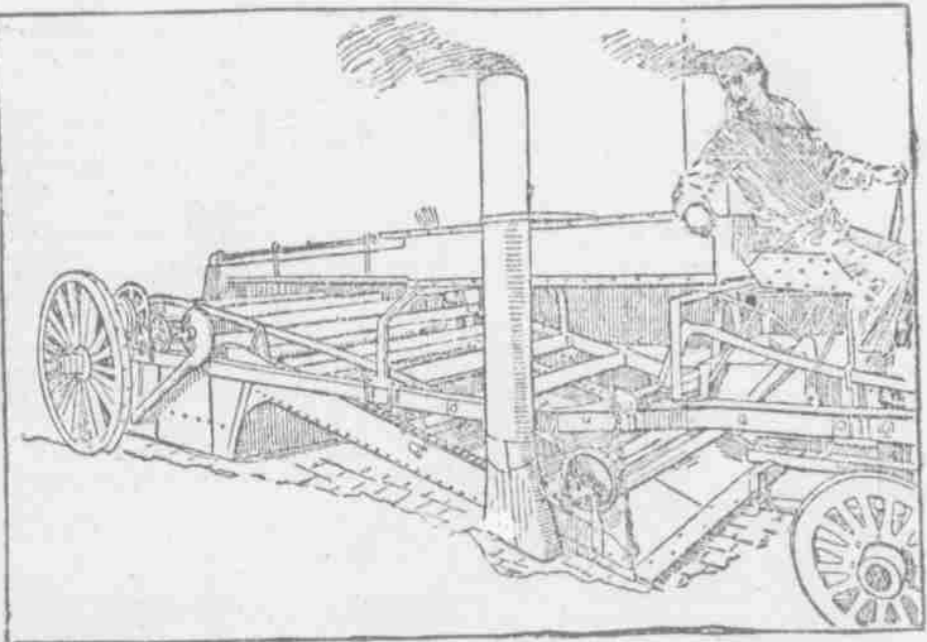
SHIP BRAKE ON THE EUREKA.

opened. The vessel came to a full stop within a distance equal to her own length. The brakes were then closed, the vessel sent ahead until the original rate of speed was attained, when engines were reversed and the brakes opened, with the result that all way ceased after she had gone only a few feet—about half her length. Manoeuvring the Eureka at full speed, she was turned also within her own length, with one brake thrown on. An examination of the hull and

Melts the Street Snow.

Machine For Disposing of the Water Accumulation.

An improved method of disposing of the accumulation of snow, which is an increasingly important problem in municipal government, is shown herewith, from the Scientific American. It is designed to scrape up the snow from the pavement and at the same time reduce it to water, which flows off into the sewers. To this end the machine comprises a furnace, or heater, of peculiar shape, mounted to swing be-



METHOD OF MELTING SNOW IN CITY STREETS.

brake mechanism after the tests showed apparently no harmful strain or other damage, and in operating the brake no jar or vibration was observable by those on board.

The method of operation is as follows: When it is desired to stop the vessel suddenly, as in the event of a collision, or when making a landing, the catches that hold the forward ends of the gate are released, and the gate is slightly opened by mechanical means. The pressure of water then catches on the forward edge of the gate, swings it out to the full-open position, sudden jar or shock being prevented by means of water cushions at the back of the slides. The movement of the brake can be controlled entirely from the bridge or from the engine room, as may be desired.

Modern School Advertising.

Many of the more successful boarding schools have followed the lead of book publishers and bankers in advertising according to mercantile methods. The old conventional card does not say the words which make an impression and compel the reader to remember a particular school. One of the modern school advertisers says that the applications for catalogues were not sent for until he put a striking announcement in the newspapers.

is provided by means of blowers having pipes leading to the ashpit. The snow scraped up on to the shoe is carried along the inside surface by an endless conveyor, and thus coming in contact with the heated surface of the furnace is immediately melted. The endless conveyors and blowers are operated by chain and sprocket connections with the rear wheels of the machine. Above the conveyor is a coal bin, from which a chute leads rearward, and is inclined downward, so that the coal may pass to the rear platform when the fireman opens the gate at the end of the shoe. Jacob Mandy, of Wakefield, N. Y., is the inventor of this machine.

The Wireless Between Islands.

A French company has been operating an electric cable between the islands of Gaudeloupe and Martinique, but the lines have been broken for some time, and now the wireless system has been put in use. The United States Consul at Gaudeloupe reports that the service is satisfactory, with only occasional interruptions by reason of weather conditions. About sixty messages a day are transmitted.

The human body, being lighter than the water of the Dead Sea, swimming in it is difficult, the head alone tending to sink in the water.

JUDGE GEORGE GRAY.



Judge Gray, Delaware's most noted jurist and head of the anthracite coal commission of last year, has lately been mentioned as a possible candidate for the Democratic Presidential nomination next year. Judge Gray was United States Senator from 1885 to 1889, and in 1898 was appointed one of the Paris peace commissioners, who negotiated the treaty of Paris transferring the Philippine Islands and Porto Rico to the United States. He was a member of the joint high commission at Quebec in 1898, and in 1900 was appointed a member of the international commission of arbitration under The Hague convention.

An Odd Corn Crib.

A Novel Method of Outwitting the Rats and Mice.

Every possible device is resorted to at this season of the year—when the old corn is becoming scarce and the



ODD WAY OF PROTECTING A CORN CRIB.

new corn seems a long way off at planting time—to protect the grain from thieving rodents. One of the

most ingenious contrivances was encountered the other day at the back of a suburban lawn, where the one well-filled corn crib stood near a stable sheltering the family driving horse. Evidently the rats were not to deprive the horse of his rightful share of good, sweet yellow corn, for six bright new galvanized buckets had been sacrificed for its protection. The crib has been mounted upon six strong cedar posts and on the top of these supports are the six large pails. When Mister Rodent smells the tempting corn and scrambles up the posts to enter the crib he finds himself baffled by a great enveloping roof of tin. The expanding edges extend so far from the posts on every side that it is impossible for the rats or mice to reach them. They are too high from the ground for them to leap upon them, and the most artful old rat is convinced after repeated trials that there is no possibility of getting around, or through, or over the troublesome pails to reach the bottom of the crib and the tempting corn within the open slats.

Bulgaria corresponds in area to Oklahoma and in population to Missouri.

MOST NORTHERLY OF CHURCHES.



This is the most northerly church in the world. The little wooden building is situated in the highest North of Siberia, seventy-two miles north of the city of Yakursk, which has the fame of being the coldest city on the globe. It was built by Russian convicts, and services in it are held but a few times in the year. The little church was discovered by a German explorer. Eternal snow surrounds that district.

ANOTHER LIFE SAVED.

Mrs. G. W. Fooks, of Salisbury, Mass., wife of G. W. Fooks, Sheriff of Worcester County, says: "I suffered with kidney trouble for eight years. It came on gradually. I felt tired and weak, with short of breath, and was troubled with bloating, nervousness, and my limbs were badly swollen. One doctor told me it would finally turn to Bright's disease. I was laid up at one time for three weeks. I had not taken any Kidney Pills more than when the distressing ache back disappeared, and I was entirely cured."

For sale by all druggists. Price 50 cents. Foster-McBarnet Co., Boston, Mass.

MISUNDERSTOOD.

Picture Dealer—The picture you were looking at before he was thirty.

Mrs. Greenback—Why do you say that? You said he was an old miser.

FREE STUART'S KIDNEY AND BUCHU

To all who suffer, or to the friends of those who suffer with Kidney, Liver, Heart, Bladder or Blood Diseases, a sample bottle of Stuart's Kidney and Buchu, the great southern Kidney and Liver Medicine, will be sent absolutely free of cost. Mention this paper. Address STUART DRUG MFG CO., 28 Wall St., Atlanta, Ga.

Small Potatoes

result from a lack of

Potash

in the soil. Potash produces size and quality.

We have valuable books which explain more fully the fertilizing value of Potash.

We will send them free to any farmer who writes for them.



GERMAN KALI WORKS, New York—25 Nassau Street, or Atlanta, Ga.—107 So. Broad St.

PAXTINE TOILET ANTISEPTIC

FOR WOMEN

A Boston physician's discovery which cleanses and heals all inflammation of the mucous membrane wherever located.

In local treatment of female ills Paxtine is invaluable. Used as a douche it is a revelation in cleansing and healing power; it kills all disease germs which cause inflammation and discharges.

Thousands of letters from women prove that it is the greatest cure for leucorrhoea ever discovered.

Paxtine never fails to cure catarrh, nasal catarrh, sore throat, sore mouth and sore eyes, because these diseases are all caused by inflammation of the mucous membrane.

For cleansing, whitening and preserving the teeth we challenge the world to produce its equal.

Physicians and specialists everywhere prescribe and endorse Paxtine, and thousands of testimonial letters prove its value.

At druggists, or sent postpaid 50 cts.

A large trial package and book of instructions absolutely free. Write The R. Paxton Co., Dept. 25 Boston, Mass.

A Gift Worth Giving A Present Worth Having

The best holiday gifts are useful gifts, and the most useful is the New and Enlarged Edition of WEBSTER'S INTERNATIONAL DICTIONARY of English, Biographic, Geographic, Fiction, etc. Useful, Durable, Attractive, Lasting. The New Edition Has 25,000 New Words, New Gazetteer of the World, New Biographical Dictionary. 1200 Pages. 500 Illustrations. Ink Bound. Why Not Give Same One This Useful Year? FREE—A Test in Pronunciation. Illustrative and explaining for the words. Illustrated pamphlet also free. G. & C. MERRIAM CO., Publishers, Springfield, Mass., U. S. A.

CAPSICUM VASELINE

(PUT UP IN COLLAPSIBLE TUBES) A substitute for and superior to mustard or any other plaster, and will not blister the most delicate skin. The pain-alleviating and counter-irritative qualities of this article are wonderful. It will stop the toothache at once, relieve headache and sciatica. We recommend it as the best and safest external counter-irritant known, also an excellent remedy for pains in the chest and stomach, and all rheumatic, neuralgic and other painful affections. A trial will prove what we claim for it, and it will be found to be invaluable in the household. Many people say "it is the best of all of your preparations." Price 50 cts., at all druggists or other dealers, or by sending this amount to the postage stamp, we will send you a tube by mail. No article should be accepted by the public unless the name carries on label, as others might be substituted. CHESBROUGH MFG. CO., 17 State Street, New York City.