

INDUSTRY AND MECHANICS

MACHINE FOR MELTING SNOW

Stream of Briny Steam From Pipe Speedily Converts Frozen Mass Into Running Water.

Blizzards should have no terrors for street railway companies and street cleaning contractors if they have an equipment including the snow melting machine invented by



Snow Melting Machine.

An Oregon genius. This machine traverses the streets under its own power and projects a stream of briny steam from a pipe that speedily converts snow into water, permitting it to be drained off in a few hours by the sewer inlets. The apparatus consists of a wheeled platform on which a hot air furnace is mounted. On top of the furnace is a brine tank, and a pipe carries water to this. Another and much larger pipe extends from the front of the apparatus and to within a foot or so of the ground. The furnace, besides supplying steam power to drive the vehicle, converts the water that passes through the tank into briny steam that passes through the large pipe in front and melts the snow like magic.

SHOVEL MADE QUITE USEFUL

Sifts Ashes in Heater and Does Away With Accompanying Dust—Screen Does the Work.

An unpleasant feature to the sifting of ashes that has led many a householder to give up this economical operation is the dust that is raised by most of the processes. A Michigan man has invented an ash-sifting shovel that does away with this annoyance and appears to solve the problem nicely. A screen fits inside a specially constructed shovel, and can be raised or lowered by means of a lever. The shovel is thrust into the furnace



Useful Shovel.

and a load of ashes taken up. The screen is then raised a couple of inches and the implement put back into the heater and shaken back and forth until all the fine ashes have dropped through the screen into the scoop and the coals remain on top. All the dust raised by this proceeding is confined to the inside of the furnace.

MODERN DRY GOODS HOUSES

As Much as \$100,000 Expended in Preparation of Samples Sent to Various Country Customers.

Some of the larger dry goods houses of this country are said to expend annually as much as \$100,000 in the preparation of samples, which are sent to their patrons throughout the country from which to make selections of stock. These firms, of course, handle a great many different grades and designs, and quantities of fine materials must be cut up into small pieces and pasted by hands on cards on which have been printed the numbers by which the samples are identified. In this connection these firms are at the

INDUSTRIAL MECHANICAL NOTES

Amber is divided into 100 different kinds.

A new roofing material is steel coated with lead.

Nearly all the meerschaum in use comes from Turkey.

Gas is being extracted from the cottonwood trees of Kansas.

Benzol is being pushed as a substitute for gasoline as auto fuel.

Graphite from a lead pencil is the simplest cure for a squeaky hinge.

The world's production of copper has tripled in the last twenty years.

Russia is showing a marked preference for automobiles of American make.

The conductivity of aluminum is about 50 per cent. that of annealed copper.

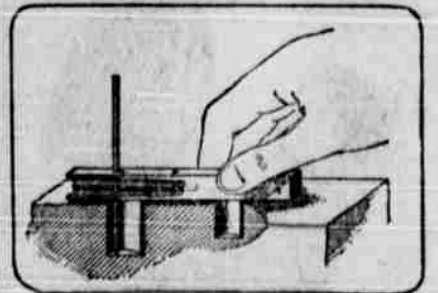
What promises to be a valuable deposit of asbestos has been discovered in Venezuela.

mercy of careless employees, who may cause serious losses and delays in confusing the samples while the pasting is being done. Recently the idea has been conceived of reproducing the samples by making embossed impressions on the card. The inventor has devised a method of reproducing the textile fabric so accurately that one can actually count the threads on the embossed paper reproduction by using an ordinary counting glass. Any slight irregularity in the cloth is faithfully reproduced. Instead of making up the samples in separate cards, he makes up a complete line in a long folder, something like that of a railroad time table. On the first page is a piece of the actual material, which the buyer may examine critically to test the quality of the line. The different patterns he can select by referring to the samples. As an evidence of the perfection of this embossed reproduction, not only colored samples of cloth are reproduced, but even white goods. The paper sample card has been adopted by a number of large merchants in New York City, who find that it cuts down their sample bill fully 50 per cent.

MAKING SIMPLE DEPTH GAGE

Apparatus in Use Twenty Years Without Renewing the Pine Plug Described by Designer.

A simple depth gage can be made as follows: Take a piece of steel five-sixteenths of an inch thick and one-half inch wide and about three and one-half inches long. Drill a one-eighth-inch hole lengthwise in the end to one side of the center line. About three-fourths of an inch from the end drill a hole one-sixteenth inch in diameter, at right angles to and cutting into the first hole, one-third of its diameter. Now this hole drilled lengthwise is plugged with a pine plug. The hole at right angles in the steel receives the gage wire, and when inserted compresses the pine plug where it crosses. This gives the desired friction, which will hold the



Simple Depth Gage.

gage wire any place that is required in gaging the depth of an aperture. Mr. Clark, the designer of this gage, has used one twenty years without renewing the pine plug—Scientific American.

ASBESTOS MINED IN CANADA

Mineral Product of Dominion Controls Industrial Situation—Discovered by Farmer.

Nearly all the asbestos of commerce comes from Canada. Perhaps the chief distinguishing feature from the point of view of composition as between the Italian and the Canadian varieties is to be found in the fact that the former is said to be anhydrous. However, the Canadian mineral controls the industrial situation. As far back as the middle of the last century asbestos was known to exist in Canada. But little attention was attracted, probably because of a noncommercial site of the deposits. A farmer, Pezetau, discovered in 1877 the mineral in commercial quantities and almost immediately production became valuable. In 1890 the total value extended to \$1,250,000. This value of output has never been equaled since, unless the exception has occurred in the last year or so. The weight of asbestos produced in 1890 was 9,860 tons, having an average value of nearly \$128 per ton. The value per ton has pretty steadily declined since. Once put into exportable shape, Canada's asbestos is, for the most part, sent to the United States. The average amount thus annually exported to her neighbor during the decade ending June 30, 1904, was about 15,000 tons, having a value of about \$450,000, or \$30 per ton.

Waterproofing Blocks of Wood.

A good way to harden small blocks of wood used in the laboratory is to boil them in olive oil for about five to ten minutes. Not only are the blocks hardened, but they may be used under water, as the process makes them waterproof to a great degree. If desired to be used for collecting gases, that is for supporting bell jars under water, they may be made further waterproof by first boiling them in paraffine, then in olive oil. This makes a wooden block hard and waterproof and every way well adapted for use in pneumatic troughs.

In Bohemia a process has been perfected whereby paper is spun into thread and woven into a substitute for jute.

Earth excavated from Panama canal is sufficient to build 63 pyramids the size of that of Cheops.

A method for making felt boots and knitted goods out of dog hair has been patented by a Russian inventor.

Higher prices for tin have led to the extensive use of aluminum foil for wrapping tobacco in England.

The addition of a pint of glass water to four gallons of whitewash will prevent the latter rubbing off a wall.

A jet-covered metal tube which may be flipped along a closed umbrella to roll it tight is an English invention.

Wooling produced more than six times as much gold last year as the year before, but less silver and copper.

A new wheelbarrow dumps its load forward as its handles are pushed down, saving its user the labor of lifting it.

Save Metal Fasteners.

To save the use of metal fasteners to hold several papers together a hand punch has been invented that makes a tongue shaped out in several sheets at once and folds the tongues together.

ATHLETE JIM THORPE NOW PROFESSIONAL



Thorpe in Action at Stockholm.

James Thorpe, the famous Indian athlete and Olympic champion, admitted that charges of professionalism brought against him were true, and has formally retired from amateur athletics. Thorpe's confession was



Martin Sheridan.

contained in a letter to the registration committee of the Amateur Athletic union, which was investigating his case.

The letter admitted that Thorpe had played baseball for a salary on a pro-

fessional team three years ago, while a student of the Carlisle Indian school, but that on the same team there were several northern college men who were regarded as amateurs, and Thorpe did not realize his participation was wrong. Thorpe added that he did not play for the money he earned, but the love of the national pastime.

Thorpe's winning of the pentathlon and decathlon events at the Olympic games in Stockholm and later his wonderful performances which won for him the all-around championship of the A. A. U. at New York, last September, had stamped him the most marvelous all-around athlete of modern times. In addition his prowess as a football player had earned for him last season by unanimous choice of leading sporting writers the position of halfback on the annual all-American football team.

All the prizes and the honors which Thorpe has gained since 1909—the date from which his standing as a professional begins—must be transferred through the officials of the Amateur Athletic union to the men who finished second to the Indian in every event.

This will mean that the trophies and points won in the pentathlon and decathlon must be given, respectively, to F. R. Ble, Norway, and H. Wieslander, Sweden, and that J. J. Donahue, United States, and G. Lomborg, Sweden, will take second place.

John Bredemus of Princeton finished second to Thorpe in the American all-around championship, and Bruno Brodd, of the Irish-American Athletic club, third, and, therefore, now must be accorded the honors. In this championship Thorpe made a total score of 7,476 points, and broke the former record of Martin Sheridan by 91 points.

The loss of the six points scored by Thorpe in the Olympic games still leaves the United States winner by a wide margin, however, the total standing, United States 79, with Finland in second place, with 29.

WORLD'S RECORD IS BROKEN

Leo Goehring Makes Adams Brothers Lower Their Colors in In-Door Jumping Contest.

Leo Goehring, of the Bronx, the champion all-around jumper of the Mohawk Athletic club, has at last made the Adams brothers, Platt and Ben, lower their colors.

At the recent meet of the Bradhurst Field club in New York, Goehring broke the world's record for standing in door jump, by clearing the bar at five feet three inches. This is one inch better than the former record held by Ray Ewry. The best that Platt Adams was able to do was to tie Ewry's record.

Goehring has relentlessly camped on the trail of the Adams brothers ever since he took up athletics. His ruling passion seemed to be to defeat either Platt or Ben, and for over two years he has never missed an opportunity to compete with them.

Goehring was a member of the last Olympic team on the regular list. Although he didn't shine in Sweden, he gained lots of experience and from now on ought to make the best in the country hustle to keep within striking distance of him.

Last year in the Juniors, indoors, he captured the standing high jump event with five feet one-quarter inch.

Auto Race Dates Set.

Dates for the running of the Vanderbilt cup and grand prize automobile races on the Savannah course were designated at a meeting of the Savannah Automobile club. The Vanderbilt cup, Tiedeman trophy and Savannah trophy races will take place November 24. The grand prize race will be run November 27. It also was decided to shorten the seventeen-mile course to eight and one-half miles.

Europeans Aroused.

Foreigners are going to see that the United States athletic representatives do not run away with Olympic championships as they have done since the establishment of international competition. James E. Sullivan, United States Olympic commissioner, has received word that preparations for the games at Berlin in 1916 have been started by all European countries.

COURAGE NEEDED IN SPORTS

In Baseball, Football and Other Games Pluck is Essential to Success of Player.

A recent writer in this paper in commenting on the playing of games made a statement which ought to be set in big type and repeated as often as possible. This was to the effect that it takes courage to "play the game," whatever that may be. A baseball man in a ball game needs to be cool when he stands close to a base reaching for the ball when the runner notorious for his "spiking" tactics comes sliding in to him feet first.

"In any position on any team a football player must have courage. It takes gameness for a runner to crack on all his speed when he is about to be tackled. It takes courage to dive into a runner and tackle him. It takes courage to hit the line, head first, running low and driving like a battering ram. The player who lacks grit will turn his back and lose force as he meets the resistance and be thrown back.

"It takes a world of courage to run the route in an olympic marathon race, and to come reeling in over the last few hundred yards refusing to drop when nature's last resources seem to have been burned out in the long, terrible drive over 26 miles.

"Lots of things take courage. Americans have more to be proud of than mere medal and point winning when they look over the performances of their olympic athletes. Our men are the peers of any in the world."—Milwaukee Sentinel.

JOE JACKSON ALTERS VIEWS

Two Dollars Per Week Raise Satisfied Star Player at Start of Career—Now Wants \$1,000.

That a baseball player can rise more rapidly in his profession than any other human being is the belief of Ben Smith, partner of Hugh Jennings in vaudeville. While in Cleveland recently Mr. Smith related an incident supporting his belief.

"Joe Jackson of the Cleveland club is holding out for a raise of \$1,000 in salary," said Smith. "When I read that I remembered the incident of Joe Jackson's first raise in baseball. He was playing with the Greenville, S. C. club six years ago, having been taken out of a sawmill, where he had



Joe Jackson.

been earning \$2 a day. The first time he went to bat as a professional he struck out. He blamed the spiked shoes, and the next time he went to bat in his stocking feet and hit the first ball over the fence for a homer.

"He went along after that getting a home run at least every other day, and the fans were wild about him. One day his pal, a fellow named Kelly, asked Joe what salary he was getting. Joe proudly told him \$16 a week.

"You're a big chump," said Kelly. "Why don't you hit the boss for more pay? Get to him and tell him you want some real money."

"Joe finally summoned up courage and called upon the boss. He returned to Kelly all smiles.

"Did you get it?" asked Kelly.

"Sure," boasted Joe.

"Well, what are you drawing now?"

"Joe glanced around to make sure no one was within hearing, leaned toward Kelly and in a stage whisper announced: 'Eighteen.'"

CAREER OF BARNEY OLDFIELD

Man More Popularly Known as "Speed Demon" in Automobile Racing Game Is 35 Years Old.

Barney Oldfield, known as the "speed demon" in the automobile racing game, was born in Wauseon, O., Jan. 29, 1878. Oldfield has been engaged in establishing and breaking records in motor racing for more than ten years. Time and again he has been injured, but he has always been able to get back into the game. He first gained prominence in Los Angeles in 1904 by negotiating two miles on a circular dirt track in 1:46:35. Last year at Cleveland he set up a new two mile record, his time being 1:36:35. At Daytona in 1910 he set the 3.5 mile record at 27:33 (since lowered to 25:40 by Butman), and also did a mile (unofficial) in 24:40. The most notable of Oldfield's recent performances was at Cleveland several weeks ago, when he established a world's record of 36:15 for a mile on a circular track.

Cobb a Tyro at Base Running. Bill Lange's base-running record is "way better than Ty Cobb's. Ty's best record for a season is 33 stolen bases, while Bill has performed that feat twice and also copped 100 bases even in a single season.

Magee Likes First Base. Sherwood Magee is very much in favor of Doolin's plans to have him play first base for the Phils next season. Magee started his baseball career in 1905 as a first sacker.

"A Growing Business Built on Our Reputation" SHIP US YOUR
Cattle, Hogs and Sheep
Steele, Siman & Co.
 SIOUX CITY, IOWA
 Tom Steele, Manager. Ray Siman, Cattle Salesman. Steve Frummer, Horse & Sheep Salesman. Harry Epperson, Office.
 Hundreds of Dakota County Farmers Ship Us. Ask them about us. Our Best Boosters.
We Work for You. Write Us. Ship Us.

Licensed Embalmer Lady Assistant
 Ambulance Service
Wm. F. Dickinson
Undertaking
 415 Sixth Street
 Sioux City, Iowa
 Bell 71 Auto R471

HARNESS
 Everything in the line of
Harness and Horse Goods
 Harness Made To Order, Only
 Blankets and Robes of all kinds.
 Big Assortment of the best brand of Whips
 Repair Work—that's our specialty.
Fredricksen & Son
 Hubbard Nebraska.

Henry's Place
 East of the Court House—for the Best in
Wines, Liquor AND Cigars
 Bond & Lillard, Old Elk, Sherwood Rye Whiskies.
Nulife Beer
 Bottle or Keg
Henry Krumwiede, Dakota City, Nebraska

Dr. HENDERSON
 815 Walnut Street, Kansas City, Mo.
 A regular graduate in medicine. Oldest in age and longest located. 41 years' Special Practice—age and experience are important.
 Over 23 Years in Kansas City.
 Authorized by the State to Treat All **CHRONIC, NERVOUS AND SPECIAL DISEASES.**
 Curable cases guaranteed. All medicines furnished ready for use—no mercury or injurious medicines used. No detention from business. Patients at a distance treated by mail and express. Medicines sent everywhere, free from cost of breakage. Charges low. Over 80,000 cases cured. State your case and send for terms. Consultation free and confidential, personally or by letter.
Seminal Weakness and Sexual Debility, the result of youthful follies and excess—causing night losses and loss of sexual power, blimpies and blotches on the face, confused ideas and forgetfulness, headlaches and aversion to society, etc., cured for life. Instop night losses, restore sexual power, nerve and brain power, enlarge and strengthen weak parts and make you fit for marriage. Send for free book and list of questions.
Stricture and Gleet cured with a new medicine. No instruments, no pain, no detention from business. Cure guaranteed. Book and list of questions free—sent sealed.
Varicocele Enlarged veins in the scrotum, causing nervous debility, weakness of the sexual system, etc., permanently cured without pain.
Syphilis, That terrible disease in all its forms and stages, cured for life. Blood poisoning and all private diseases permanently cured.
FREE BOOK On Chronic, Nervous and Special Diseases. For both sexes—66 pages, 27 pictures, full description of above diseases, effects and cure, sent sealed in plain wrapper.

Ask Your Dealer to Show You
 Fully Guaranteed Satisfaction or Money Back
The Famous Sturges Bros. Harness
 If They Don't Have Them, write or call on
Sturges Bros., 411 Pearl St., Sioux City, Ia
 Abstracts of Title
 A \$10,000 Surety Bond
 Guarantees the accuracy of every Abstract I make
 Successor to
Dakota County Abstract Co.
Bonded Abstractor
J. J. EIMERS