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SCIENCE—INDUSTRY.

Test For Keel Block.

An important test was conducted recently by the United States bureau of standards to determine the ultimate strength of a cast iron keel block. As designed the block was expected to withstand a load greater than could be exerted by any testing machine in existence. It did withstand the full capacity of the bureau's testing machine (10,000,000 pounds) when the load was applied over the entire bearing surface of the block, but when the load was applied over part of its bearing surface it failed at 9,900,000 pounds.

The test of the block itself was preceded by several preliminary tests to determine the strength of oak timbers, which are usually placed between keel blocks and the keel of the ship. At loads from 800,000 to 900,000 pounds the timbers were completely shattered, the variation in the load depending entirely upon the variation in the area over which the load was applied.

After these preliminary tests the keel block was subjected to a load equal to the capacity of the machine. At about 6,500,000 pounds several sharp reports were heard, but after the full load was applied there was no apparent damage to the exterior of the block. On dismantling it, however, it was noticed that several of the webs of the various sections were cracked. It was then reassembled and the load applied over a smaller area, when it failed at 9,900,000, with a very loud report and almost complete shattering of the various sections, throwing parts of them to a distance of twelve feet. United States Commerce Reports.

Peculiar Well in Florida.

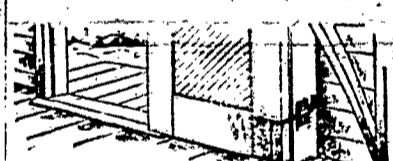
In their investigation of the wells and underground waters of Florida, the geologists of the United States geological survey have noted many interesting things. Among these is a well at Welaka, on St. Johns river, from which two kinds of water are obtained.

This well is 300 feet deep. The length of the casing is 110 feet. The well was first drilled to 100 feet, and from this depth ordinary sulphur water was obtained. The drill was then carried to a depth of 300 feet, where it encountered a strong mineral water having a disagreeable, salty taste. In order to use both kinds of water an inner tubing was run nearly to the bottom of the well. Both this and the outer casing were connected with pumps, so that ordinary water and mineral water can be pumped at the same time. A favorite joke played on visitors is to give them a drink of the water from the first glass and to replace it with the brine in the second.

Not more than half a dozen wells of this kind are known in the country, but there is no reason why similar wells cannot be obtained in regions where the waters in the upper strata differ from those lying deeper.

Holding Large Deers Open.

Large and heavy shop doors are when caught by sudden gusts of wind, about as dangerous as anything around the establishment. Guys Popular Mechanics. A good many ways are em-



IRON ROD HOLDS DOOR

ployed to hold them open, but a strong wind readily tears a heavy door free from its anchor.

The illustration shows how a cheap, practical and simple lock open arrangement can be made from a piece of seven-eighths or one inch round iron. It is capable of holding a door of considerable size open no matter how strongly the wind blows, and on account of its shape it will not break loose.

Fuses For Explosives.

One of the most commonly used fuses today is made by letting a fine stream of black powder run from the small end of a funnel into an envelope of hemp, thick, but not much twisted, the powder falling in as fast as the hemp is twisted. This tube is then enclosed in a mesh of fine cotton, twisted in the direction opposite to that in which the hemp was twisted. The whole is held together with glue and burns at the rate of one centimeter a second.—New York World.

Advice For Motorists.

Don't slide your wheels by locking the brakes too suddenly.

Don't allow your car to stand in puddles of oil or water, as neither one is good for your tires.

Remember that the pan, engine and other mechanical parts of the car should be kept clean.

Don't turn corners too fast. While this may seem spectacular, it is always hard on the tires.

Automatic Lamp Shift.

Ingenious mechanism in a new German lighthouse that uses electricity as an illuminant switches on a new lamp and moves it into focus should the original lamp be extinguished.

Tire Destroyer.

More tires give out from insufficient inflation than from any other cause. It should be remembered that it is the air in the tube that carries the load and cushions the road.

IN THE WORLD OF SPORT

Ty Cobb, Detroit Americans' Great Outfielder.



Photo by American Press Association.

Tyrus Raymond Cobb of the Detroit American baseball team, considered by many fans as the world's greatest ball player, is a native of Georgia. He joined Hughby Jennings' outfit ten years ago, when he was eighteen years old. As a base-runner and batsman, Ty is pretty nearly in a class by himself and as a runner he is unequalled. Some experts contend that Ty does not cover as much territory as Tris Speaker in the outer garden, but his ability in other respects covers whatever deficiencies, if any, he has. When playing the game Cobb is always "on his toes," and his aggressiveness and resourcefulness are always in evidence. Pitchers fear him more than any other man in the league, and once on first base he is likely to steal his way home.

Auto Race Dates Named.

The automobile racing season for 1916 will be officially opened in New York city on Saturday, May 13, when the contest for the Metropolitan cup, heralded by motor enthusiasts as the great event of the year, will be held at the new Sheepshead Bay speedway.

In addition to the contest for the Metropolitan trophy, there will be three other races for the Queens County cup, the Coney Island cup and the William Kemble cup. Twenty thousand dollars in cash prizes will be offered. The race for the Metropolitan cup will mark an innovation in automobile racing, in that the distance will be only 150 miles. The distance of the other contests will be as follows: Queens County cup, fifty miles; Coney Island cup, twenty miles, and the William Kemble cup, ten miles. Thus the public demand for shorter races, with livelier action, will be met.

The Intercollegiate Regatta.

After much controversy, the date of the intercollegiate regatta at Poughkeepsie has been fixed for Saturday, June 17. This is in accord with the wishes of the railroad company which furnishes transportation for the crowds that attend, and means concessions on the part of the University of Pennsylvania, whose representatives objected to so early a date on the ground that it would give the red and blue crews less time in which to train, owing to examinations, which run far into June. The tide in the Hudson will be running upstream in the afternoon of the following Saturday, June 24, and the railroad company, objected to a later date on the ground that it would be getting so near the Fourth of July as to interfere with the usual traffic of that holiday.

Oppose Home For Ball Players.

A majority of the members of the Detroit American league baseball club do not approve the plan of establishing a home for retired baseball players. Several of the Tiger players have declared that under present salary conditions they are unable to support their families. Some were inclined to think that players who were not of a saving disposition, but who were clever performers on the ball field, would not be helped and might be harmed by the proposed plan.

Beals Wright to Try Again.

Beals Wright, former national tennis champion, is going to try to "come back" this year. Wright recently returned to North Yakima, Wash., from Honolulu, where he played in the winter tournament, and despite his having been out of the game for years, was successful in getting into the finals in both the singles and doubles. Wright will give considerable attention to training the coming summer and expresses confidence that he can come back. Wright has gone into training and will play in all big tournaments.

Syracuse Athletic Field.

Syracuse university is to have the largest athletic arena in America, its stadium covering six and one-third acres. It will have a normal seating capacity of 20,000, which can be increased to 40,000. The stadium will cover more ground than the famous Yale bowl.

HINTS FOR THE BUSY HOUSEWIFE

Handles on Mattress Make Moving Them Easy.



Because of its shape and weight the mattress on the bed is a difficult thing to change or move. The mattress has an aggravating manner of slipping through one's grasp, no matter how it is seized, like the proverbial eel, and is a hard thing to hold or handle. It has remained for a woman to invent the means of holding a mattress in check, for a woman of North Dakota has recently invented a method of putting handles on the mattress by which it can be transported from one place to another with ease. The illustration shows one of these handles in place.

Washing a Sweater.

Put one half of a five cent cake of white soap, add two and one-half table-spoonfuls of borax and boil in a pint of water until dissolved. Put the soap solution into enough cold water to cover the sweater; let it soak over night if white, but only one hour if colored. Squeeze carefully through the hands until all dirt is removed, but do not rub; then rinse in cold water to take out all soap. Shake out as much water as possible, but do not wring. Do not hang up, but lay on Turkish towel on a flat surface; dry in sun and air if white, but in shade if colored.

Household Hints.

To mend china or glass melt alum in an old iron spoon over the fire and apply to broken parts. When dry these articles can be washed in hot water and the cement will hold.

To clean white iron bedsteads a damp cloth and a little cooking soda rubbed over the bedstead will leave it clean and white.

For rust stains rub some freshly boiled rice on the stains, then soak them in the water the rice was boiled in.

The Care of Furs.

When leaving off furs in the spring brush them thoroughly, comb with a very coarse comb and hang on the line in the sun for half an hour. Buy the largest size steam-crank line with newspaper, put a small piece of cambric on the bottom, lay in the fur carefully and smoothly and put on the cover. Fasten a strong strip of cloth around the edge of the cover to seal it, and the furs may be kept intact for any length of time.

Scalloped Sweet Potatoes.

Boil the sweet potatoes in salted water until tender. Cut into half inch cubes and put into a baking dish, dotting here and there with butter, pepper and salt. Make a cream dressing by rubbing sufficient flour in a little milk and pouring over the cubes. Sprinkle cracker crumbs over the top and bake for ten minutes in hot oven. This may be made of the raw potatoes, but the oven must be slower and more time given.

Fruit Tapioca.

Cook one cupful of tapioca in one quart of water until it is soft. Stir frequently. It should be the consistency of soft custard. Sweeten with one cupful of sugar. Place in a dessert dish one spoonful of preserved peaches or any other kind of fruit. Put the tapioca preparation around the fruit and serve with plain or whipped cream.

Chocolate Icing.

One cupful of powdered sugar, one-fourth cupful of grated chocolate, add sweet milk, a teaspoonful at a time, to mould into a smooth icing just stiff enough to spread without running; spread over cake and set away to harden. This icing can be cut without breaking. Of course one can have white icing by omitting the chocolate.

Succotash.

String and break or cut green or wax beans into inch lengths. Cook until tender in boiling salted water, season with butter or cook with a small piece of fat salt pork. Ten minutes before serving time add green corn cut from the cob in the proportion of a cupful of corn to each two cupfuls of beans.

Cooking Cauliflower.

To keep cauliflower white and free from scum when cooking, before placing the cauliflower in the saucepan tie it up in a piece of clean muslin. When ready it can be easily lifted from the pot into the colander to drain. Untie the muslin, and you will find the vegetable beautifully whole.

Chicken Hint.

When stewing a young chicken put over the fire in a pot of cold water. Then a sprig of celery should be dropped into the water. Remove when the chicken is tender. This gives the chicken a delicious flavor.

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