

WATER-POWER FUTURE FUEL

Coal Too Rapidly Exhausted to Last Much Longer.

UTILIZING WAVE POWER

Ocean Billows to Propel Vessels and Give Mariners Warning of Approaching Storms.

Wizard Edison has recently declared, in an interview, that coal gas is to be "the fuel of the future."

It is true that recent discoveries and improvements in the methods of electric lighting will give the electric light its place in the front rank of public and private illumination, and that gas, which now holds first rank, may shortly recede to the rear end of the procession in that respect.

The New Jersey scientist, Moore, recently demonstrated, at the New York Electrical Exposition, that his electric light is far and away superior to that furnished by the ordinary incandescent methods.

There is a very extensive field in which coal gas has as yet no successful rival. It is indubitably true, and the gas companies may be depended upon to promptly occupy that field, if electricity drives them from their ordinary business.

While in this country and many others coal is abundant, in others, notably in Great Britain, coal veins are being rapidly worked out, or are only reached at such increasing depths that prices have already advanced, and the next generation will surely have to face the prospect of practically total exhaustion.

So, too, in several other countries, the great centers of industry in Belgium, France and Germany must come to the end of their resources in this respect before the end of the next century.

As in the political, so in the industrial and scientific worlds, there are not wanting "propagators of evil" who make haste to predict fearful disasters to mankind in certain eventualities. The same conspicuous and, without dissent, of these is Prof. Thurston of Cornell University, who, a few years since, in a lengthy and laborious essay, pointed to our arrogant imaginations the doom that would result from the exhaustion of coal.

Not content with vividly presenting the disasters following such exhaustion within a few years, he has also, in a somewhat "rabid" style, so to speak, by scientifically demonstrating that in "the vast areas of time to come" even the sun himself, from whose rays we receive the light and heat we experience, have flow and ebullience to flow, must eventually "pale his ineffable fire."

This awful contingency is so remote, however, that a person of the slightest shiver in the reader, even with the thermometer dialing about the 100 degree mark in the shade, unless, indeed, he were afflicted with the morbidly scientific materialism which moved Mark Twain before at the grave of his remote ancestor, Adam.

WATER TO BURN.

There will always be coal less by a superfluity of possibilities as long as mankind exists. Nevertheless the optimists must always remain in the great majority and they will find many good and sufficient reasons to strengthen them in their faith.

Never, while the earth exists, will I look for an abundant source of fuel. This great globe is two-thirds enveloped with an inexhaustible store of fuel in many places five or six miles thick.

When it is remembered that water is only a compound of two single gases hydrogen and oxygen in the proportion of two of the latter to one of the former, by weight, it will be seen how absurd are the scientific speculations concerning the frightful results which must follow the exhaustion of the world's supply of coal fuel.

While these facts are undeniable as to the potential superiority of water as a fuel and while it is also unquestioned that there exists several processes for decomposing water into its constituent gases, none of them are sufficiently economical to render them commercially profitable.

The only safe method is to construct a floating apparatus. Long experience with floating lights has demonstrated that it is perfectly feasible to construct vessels which may safely ride at anchor during the most violent hurricanes.

Given a proper vessel, a floating vessel, there remains only the construction of a device which shall utilize and store up for transmission ashore of the enormous power in the form of mechanical energy to a vessel which tugs up and down on the surface. This is an easy task.

Firmly attached to the submerged float are tubular cylinders, preferably of brass, which pass up through apertures in the surface float, their tops rising two or three feet above the deck of the latter.

Connected to these valve openings are two or more cylindrical reservoirs, according

THIS IS C. E. WEEK WITH US.

Yes, we have been very busy.

We have been busy—so busy that many extra clerks have had to help us out—and yet, we feel that this sale has been a distinct benefit to the community—a tremendous saving. We always meet the times—we always strive to make our prices suit the pocketbooks of the people—but on this occasion we sacrifice all profit and are content to end the season with a clean sheet as far as Tan Shoes are concerned.

STOLL'S GREAT TAN SALE

is no new thing; last year we electrified the city by selling \$25,000 worth of Tan Shoes in one month and selling them at prices that the "old fogey" dealers—bless them—never dreamed of. Now we are doing it again. Doing it for Men, Women and Children—giving them Shoes at less than wholesale prices. Tomorrow you can see the marvel for yourself.

MEN'S SHOES.

- Men's Russia Tan—needle and opera toe—a very stylish Shoe. The right price is \$2. SALE PRICE..... 1.19
Men's Russia Tan. The fashionable shade. Shoes that regularly sell for \$2.50. SALE PRICE..... 1.47
Men's Light or Dark Tan—razor, needle, opera, London toes or Yale cap. Regular price \$2.98. SALE PRICE..... 1.97
Men's Oxblood, Russet and Chocolate Shoes—needle, opera and globe toes and Yale cap. The right price is \$4..... 2.47

WOMEN'S SHOES.

- Women's Tan Oxfords—opera and needle toes—very dainty and well made Shoes. The price should be \$1. SALE PRICE..... 73c
Women's High Tan Lace—needle and razor toes—a pretty and stylish Shoe. The regular price is \$1.50. SALE PRICE..... 96c
Women's Tan Seal and Russia Leather Oxfords—needle, opera and square toes—hand-turned. This is the greatest bargain we ever offered—they are worth \$2.25—A to D widths. SALE PRICE..... 97c

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Women's hand-turned Oxfords—light and dark shades—widths A to E, all sizes. Very fascinating Shoes. Worth \$2.50. SALE PRICE..... 1.23

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- Boys' Tennis Oxfords—all shades..... 25c
Boys' High Tan and Black Tennis Shoes..... 35c

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in whose field of force there circulates constant currents from east to west. Tesla has made hopeful experiments in the direction of "hooking on" these natural currents to drive motors. But that is a story which is to be continued "tomorrow indefinite."

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to the size of the apparatus, which reservoirs should be arranged longitudinally in the hold, and upon the deck also, if required, in which may be stored under any required pressure the water thus forced into them.

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OLD WHISKY BEATS NEW.

Fuel Oil and Its Poisonous Effects on the Human System.

The commonly prevailing ideas as to the chemistry of whisky are evidently confused. The popular notion has always been that crude or freshly distilled whisky was injurious and that it required the mellowing influence of age to make it fit for consumption.

In other words, new whisky was held to be unwholesome because it contained fuel oil, and that the reason why old whisky was more wholesome was because this fuel oil had changed in course of time to the so-called "oceanic ether." To put it chemically, the amyl alcohol (fuel oil) oxidizes slowly into amyl ether, which is not only thought to be innocuous but to improve the flavor.

With the former part of his statement we will not quarrel, but to the latter we distinctly demur. It cannot be supposed that whisky merchants take the trouble to store their whisky for years unless they know that it is thereby improved from the dietic point of view.

Fuel oil is admittedly injurious—indeed, poisonous—according, at least, to the experiments of several observers. In one case, for example, 1 part of amyl alcohol in 500 parts of water caused anaesthesia in frogs in twenty minutes, the heart's action becoming slower, the

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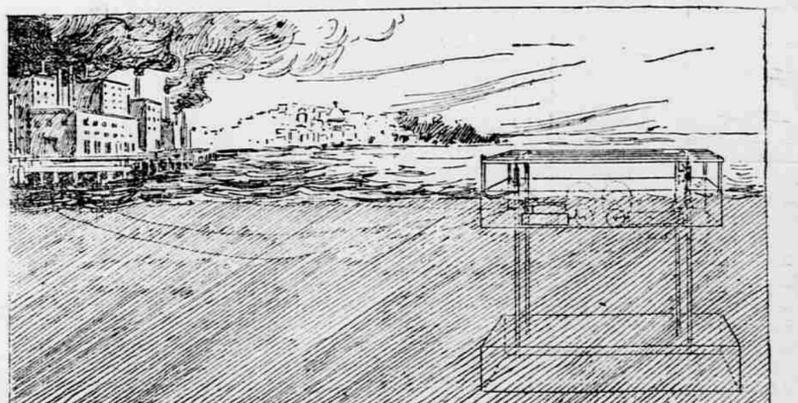
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The Wave Power Motor.

er many of these devices are more or less effective, but no apparatus yet constructed has been able to withstand the force of the breakers at such times. The only safe method is to construct a floating apparatus. Long experience with floating lights has demonstrated that it is perfectly feasible to construct vessels which may safely ride at anchor during the most violent hurricanes. Given a proper vessel, a floating vessel, there remains only the construction of a device which shall utilize and store up for transmission ashore of the enormous power in the form of mechanical energy to a vessel which tugs up and down on the surface. This is an easy task. Submerge beneath the surface float at a distance just below the influence of the billows a second float or platform, which shall act as a resistance to the surface vessel, and yet transmit that resistance in the form of mechanical energy to adequate machinery stationed upon the anchored vessel above. HOW IT SHOULD BE DONE. Firmly attached to the submerged float are tubular cylinders, preferably of brass, which pass up through apertures in the surface float, their tops rising two or three feet above the deck of the latter. To a framework on the deck of this float are rigidly fastened iron rods, to whose lower ends are affixed closely fitting plungers, which operate as pistons in the cylinders. With a system of valves in the openings in their cylinders you have a series of pumps, whose plungers are operated by the rising and falling surface float. Connected to these valve openings are two or more cylindrical reservoirs, according

skin dark, death occurring in about two hours, and the cardiac pulsations gradually ceasing. The common effect of fuel oil is to produce intense headache, and it must be borne in mind that in the case of whisky the action of alcohol must be added to that of the fuel oil. The amount of fuel oil, we believe, in whisky averages about .2 per cent. These observations hardly bear out the statements made before the commission. Incidentally we may add that it is exceedingly satisfactory to find that the consensus of opinion of the witnesses before this commission appears to be that there is a decrease in drunkenness in the metropolis, but this decrease, it is noteworthy, is less among women than among men. Reduction in Rate to Bay Ridge. The rate to Bay Ridge, the beautiful excursion resort on the Chesapeake Bay, has been reduced this season to 50 cents for adults, except for evening train a rate of 75 cents will be charged, with rebate of 25 cents after coupon is stamped by ticket agent at Bay Ridge. Half rate for children between the ages of 5 and 12 years. Trains leave B. & O. depot, week days, 9:15 a. m. and 4:28 p. m. Sundays, 9:35 a. m., 1:30 and 3:15 p. m. je16-w, 18-44 \$1.25 to Baltimore and Return During Christian Endeavor Convention via Pennsylvania Railroad. On account of the meeting of the Christian Endeavor Convention, the Pennsylvania Railroad will sell excursion tickets, July 6 to 31, valid for return passage until July 31, to Richmond, Fredericksburg, Petersburg, Norfolk, Old Point, and Gettysburg at greatly reduced rates. je16-17 Free turtle soup at Bethesda, Morgan House.