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The above goods were purchased by Mr. Score during his recent visit to Europe for CASH; hence the prices are phenomenal and will only be sold for Spot Cash.

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John Macdonald & Co. TO THE TRADE: NEW STYLES IN WATERPROOF GARMENTS

John Macdonald & Co. WELLINGTON AND FRONT-STREETS EAST, TORONTO.

SCIENCE AND PROGRESS.

A series of exhaustive experiments, as published in the engineering journals, has been made to determine the value of different fuels as compared with crude petroleum, and the following results are recorded: Coke that has about 84 per cent. of carbon is found to contain 13,840 heat units, requires nearly eleven pounds of air for complete combustion, the rise in temperature being 4,877 degrees, F., and the maximum amount of water that it will evaporate is 14.15 pounds for each pound of coke.

A Novelty in Gas Burners. A novel and useful departure is to be noted in the construction of heating gas burners of the Bunsen type, the new feature consisting in having outside of and surrounding the flame a metal tube with air-receiving openings at its under surface, and air-discharging apertures in its upper portion, impinged by the flame, thus effecting more perfect combustion and producing an intense heat.

is inserted the threaded part... of the burner; the latter consists of a casting with lateral apertures through which the gas issues, and with lugs at short intervals, the top of the casting being closed by a disk which rests upon the lugs and is secured in place by screws.

The Strength of Different Materials. Some comparisons of an important practical character, in their bearing upon engineering construction, have recently been made by Prof. Thurston. From these it appears that cast-iron weighs 444 pounds to the cubic foot, and an inch square bar will sustain a weight of 16,500 pounds; bronze, weight 225 pounds, with a tenacity of 36,000; wrought iron, weight 480 pounds, with a tenacity of 50,000; hard "struck" steel, weight 490 pounds, with a tenacity of 78,000; titanium, weight 168 pounds, with a tenacity of 28,000. Singular enough, if equal weights of metals and wood be compared, it is found that several varieties of wood are stouter than ordinary steel.

New Coloring Material. Accounts are given of a new and beautiful material for coloring fabrics, dyeing tannin-tannin mordanted cotton a turquoise shade—a very greenish blue—and represented to be fast to light, alkalies, and acids; the fastness to washing, even with strong alkalies, is also said to be excellent, the color going slowly on to the fibre and dyeing level without difficulty. On silk, which is dyed in a curdled soap bath, shades of great brilliancy are obtained—in cotton printing, likewise, the turquoise blue is distinguished by its fastness to light and washing. In this connection the quantity of tannin employed affects the shade of the color in so far as that, if a small amount of tannin be taken, the shades are bluer, while a larger amount produces greener shades; the fastness of the color lake is, however, increased by the addition of larger quantities of tannin.

Utilizing Wave Power. A correspondent from Maryville, Mo., who obtained the idea from a spouting rock in California similar to the spouting rock of Newport, suggests a plan for collecting and utilizing sea water for power. His idea is to excavate a conical tunnel in the rock or the building of such a tunnel in the sand, through which the waves may force water intermittently into an elevated reservoir; the pipe between the tunnel and the reservoir being provided with a check valve. The water stored in the reservoir could be utilized for power at pleasure.—Scientific American.

A Curious Potato Growth. A correspondent from Somerset, Pa., W. M. Schrock, sends us a specimen of a last year's garnet potato, which, having sprouted, potatoes grew on the parent potato. On each side of the

original potato are slits, from which protrude the new growths. On removing one of these other potatoes, others are seen in the heart of the original.—Scientific American.

Paper Making Materials. There are many patents relating to the manufacture of paper. Some of the patents provide for the making of paper from the leaves of trees from pop plants, bean stalks, yea vines; from the trunks and stems of Indian corn and every variety of grain; from moss, hay and more than 100 kinds of grasses; from straw and coconut fibre; from fresh water weeds and seaweeds; from saw-dust, shavings and asbestos.—Scientific American.

"It must be strange for the Spaniards to feel that they are ruled over by a mere infant." "Why?" "It's so uncommon." "Humph! It's plain you never had an infant."—Harper's Bazar.

"Mrs. Snipsey is almost frantic about her little boy having measles." "Is he dangerous?" "No, but four of her near neighbors have new bonnets, and she can't go to church."—Chicago Inter-Ocean.

Widow—Wall Mr. Brief, have you read the will? Brief—Yes, but I can't make anything out of it. Heirs—Let us have it patented. A will that a lawyer can't make anything out of is a blessing.—Milwaukee Sentinel.

Mrs. Flatter—George, dear the cook is going to-morrow. George—Why, what is the matter with her? I thought she liked the place. Mrs. F.—That is the trouble. She says she is too contented with us.—Brooklyn Life.

Friend—You still employ Dr. Hardhead, I see. Mrs. De Style—He's just too lovely. My husband and I both like him. When we are ailing he always recommends old port for my husband and Newport for me.—New Haven Palladium.

"What your story needs," said the critic, "is more atmosphere." "Well, that goes to show that there's no pleasing everybody," said the discontented author. "The editor who read it last says it's too breezy."—Washington Star.

"I tell you, women are coming to the front," said the woman's rights man. "That's a fact," said the bald-headed man; "there was one in front of me at the theatre last night, and I never saw the stage once."—New York Press.

Father—He says that he loves you, but can he support you in the style that you have been accustomed to? Daughter—Even better, father-dear, if you will just turn the money; that is all that discourages him.—Chicago Inter-Ocean.

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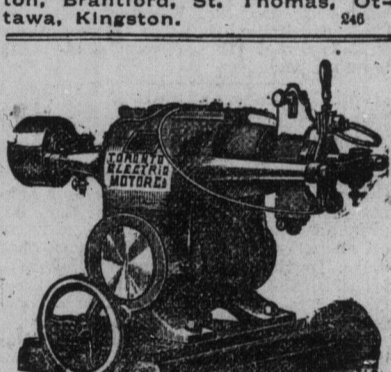
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