

NEWEST NOTES OF SCIENCE

A nut cracker has been invented that will crack three nuts at once. Russia leads the world in the production of rayon fiber and Argentina of its seed. Portable electric machinery has been invented to screen coal and load it in wagons. An aerial rudder helps to steer a French racing automobile and lessens its skidding. Sliding racks for silverware instead of knives feature the bottom of a new sideboard. For automobile upholstery an artificial silk is being made from spun glass in England. An ash receiver from the centre of which rises a vase to hold flowers has been invented. Irrigation projects under consideration for India involve about 10,000,000 acres of land. A jack to lift telegraph or telephone poles from holes has been invented by a Chicago man. A German city collects garbage, dries it and mixes it with molasses to form a cattle food. A lever arm lifts the top of a new range and holds it out of the way when a fire is to be fixed. Carbons for lighting and electro-chemical purposes are made in Sweden from tar by a new process. Pennsylvania's mineral resources yielded an output valued at nearly \$2,000,000 last year. A dredge built in Holland for the government of Uruguay crossed the Atlantic under its own power. Pliers have been patented by an Illinois inventor to split insulation and remove it from wires neatly. Chinese cotton planters in the vicinity of Shanghai are experimenting with seed obtained from Georgia. A brush, comb, mirror and electric light are combined in a new toilet set that can be carried in a pocket. A Brazilian city uses a trolley car ambulance to transport patients to and from hospitals in its suburbs. A recently patented oscillating electric fan can be made to blow its blades either vertically or horizontally. Uruguay has organized a government institute of geology with a director and assistants from the United States. The addition of a few drops of cedar oil to gasoline when the latter is used for cleansing will lessen its odor. Tongs invented by a Frenchman for handling hot dishes are equipped with a spring to ensure them holding firmly. Water pressure operates a new air compressor for automobilists so that no oil is sprayed into tires to injure them. China has increased its telegraph lines to a total of 30,000 miles, of which the government owns more than one-half. A patent has been issued for an attachment by which any person can lessen the amount of sound given by telephone bells. About 5,000,000 cardboard food containers are being made by a London factory weekly to take the place of tin receptacles. Ordinary wire crassers will cleanse tarnished copper, the grit in the rubber removing the tarnish without scratching the metal. With walls but two inches thick, a concrete motion picture theatre, 80 by 45 feet and eighteen feet high, has been built in England.

AMERICAN BANK NOTE CO. Earned \$3.84 Per Share For the Half Year. New York, Sept. 6.—The American Bank Note Company's report for six months ended June 30th shows a net income of \$570,864, after charges and expenses, compared with \$734,058 for the twelve months of 1917. The 1918 earnings are equivalent to \$3.84 a share on 91.6 shares of common stock of \$50 par value, after deducting preferred dividends compared with \$5.17 earned for the entire year. Purchased Factories. New York, Sept. 6.—The General Cigar Company has purchased the four large cigar factories operated for several years by the Wayne Cigar Company of Detroit. The Wayne factories have been producing cigars at the rate of 150,000,000 a year, and the purchase brings the General Cigar Company's output up to 650,000,000 annually. This acquisition brings the number of plants controlled by the General Cigar Company up to 38. The company has United States Government orders aggregating several million cigars. Outlook Is Good. Toronto, Sept. 6.—Canadian steel companies have made remarkable headway during the past three years of operations. This is especially true of the four big concerns, namely the Dominion Steel Corporation, the Nova Scotia Steel and Coal Company, the Steel Company of Canada, and the Lake Superior Corporation. The steel companies as a result of large increases in capacity have been able to give some attention to regular business. This work will likely increase as the war draws inevitably to a satisfactory close. In all parts of the Dominion large structural projects are in view, as soon as peace is declared. These will furnish business for the steel companies. Canadian business has been invading foreign markets, not merely with war materials, and our lines are set for a campaign to extend our outside trade after the war. Mining Corporation Dividend. Toronto, Sept. 6.—The Mining Corporation of Canada has just declared a quarterly dividend of 12 1/2 cents per share, plus 6 1/2 cents, a total of 18 1/2 cents per share. This is the third declaration this year, 25 cents having been paid in March and 18 1/2 cents in June, of 62 1/2 cents for the year so far declared. The company paid 53 1/2 cents per share in 1917. Commercial Notes. It is understood that it is likely that the Mining Corporation of Canada will soon be working on the Kennedy claims in Boston Creek. Net earnings of the U. S. Rubber Co. for the six months from January 1st to June 30th, 1918, after deducting all interest charges and after allowing for depreciation federal taxes and reserve were \$10,243,325. The assets of the British Canadian Lumber Corporation were recently sold for \$2,250,000 to a committee of the bond and security holders, and a new company has been formed under the title of the British Timber Corporation. The annual report of the Canada Bread Company for the year ending June 30th, shows an increase in manufacturing profits, the total being \$205,771, as compared with \$199,107 during the previous year, and \$223,771 in 1915-16.

The Market Reports

Table of market reports including sections for LIVE STOCK (East Buffalo Cattle, Chicago Cattle), GRAINS (Chicago, Winnipeg), TORONTO STREET MARKET (Dairy Produce, Dressed Poultry, Vegetables), and GENERAL PRODUCE PRICES (Eggs, Butter, Poultry, Hay, Hides, Furs, etc.).

Table of market reports including sections for DAILY PRODUCE (Butter, Creamery, Eggs, etc.), MEATS (Beef, Pork, Mutton, etc.), POULTRY (Chickens, Ducks, etc.), VEGETABLES, and FRUIT (Apples, Bananas, etc.).

KINGSTON INDUSTRIAL EXHIBITION

Sept. 24-25-26-27 \$10,000 in Premiums, Etc. A VISIT TO THE FAIR MAKES Children Cheerful, Mothers Merry, Father Feel Fine, Grandma Gay, Grandpa Gleeftul. Largest and best poultry exhibit at any Fall Fair during 1918. The largest and best vegetable exhibit at any Fall Fair during 1918. KEEP YOUR EYES ON THE NEWSPAPERS FROM NOW ON. Prof. C. A. Farley and Madame Farley will make aerial feats daily, making the most sensational balloon ascensions and parachute drops known to the world-to-day. A SQUARE DEAL TO ALL IS OUR MOTTO. Owing to public demand in 1917 we were obliged to operate one day more than scheduled, OF DIRECTORS OF 1918 to such an extent that they are using all the energy they possess to make the 1918 event a greater success. DO NOT FAIL TO GET A PRIZE LIST. COLIN ROGERS, Esq. PRESIDENT. ROBT J. BUSHELL SEC. TREAS & MANAGER. ADMISSION TO THE BIG SHOW, 25c.

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The Kingston Market Kingston, Sept. 6th. Fish: Cod, 10-15; Hake, 12-15; Flounders, 10; Fillets, 12; Finnan Haddie, 12-15; Hake, 12-15. Poultry: Hens, 25-30; Turkeys, 30-35; Ducks, 25-30; Geese, 25-30. Eggs: 25-30. Butter: 45-50. Flour: 2.00-2.50. Wheat: 2.00-2.50. Corn: 1.50-2.00.

The Voice of Experience always redounds to the credit of a Manufacturers Life policy, both from the protection it affords and also from a savings viewpoint. An enterprising Nova Scotia merchant writes: In proof of the satisfactory treatment I have received from you during the past twenty years I have already given your agent, Mr. O. P. Goucher an application for a new policy to take the place of the one I am now surrendering. THE MANUFACTURERS LIFE Insurance Company HEAD OFFICE TORONTO, CANADA M. G. JOHNSTON, Branch Manager, Kingston.

Now is the Time to Plan Your Heating As soon as possible, the earlier the better, get your plans complete for putting in a new and satisfactory Hot Water Heating System. ARCHITECTS AND BUILDERS AND SANITARY ENGINEERS realize that the comfort of Canadian families during winter is best secured by having homes heated with the famous KING HOT WATER BOILERS AND IMPERIAL RADIATORS. There are fourteen constructive advantages in the King Boiler, and Imperial Radiators have an exceptional capacity for throwing off heat quickly, uniformly and steadily, maintaining an even temperature even in the severest weather. STEEL AND RADIATION, LIMITED Manufacturers of Hot Water and Steam Boilers and Radiators, Fenestra Steel Sash and Concrete Reinforcing 158 FRASER AVENUE, TORONTO