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For the Grown-Ups.

FOR SALE AT ALL GROCERS

Power by Radio

Whenever this subject is mentioned to the average scientist or radio man, says Hugo Gernsback, editor of Radio News (New York), you will see him lift his eyebrows and look at you with a sort of pitying expression. The reason is simple. Take an ordinary broadcast station operating on 500 watts, then take the most sensitive measuring apparatus a mile away from the station, and you will find that the energy received at that dis-

tance is not enough to lift the smallest snowflake. At 100 miles, the power delivered from a broadcast station to a receiving set becomes so incredibly small that it is almost impossible to express it in figures. He goes on: "Therefore, we should not be surprised, when we talk of power by radio, to find the radio scientist becomes extremely annoyed. Nevertheless, what seems impossible to-day is a reality to-morrow. Had you mentioned to any great scientist thirty years ago that it would be possible to speak in New York into an elec-

trical instrument and, without any intervening wires, hear the voice in Europe, the scientist would, of course, have laughed aloud and have chided you for your nonsense. He would have told you that it is not possible to do it even over a transatlantic cable, because if you put only a little power on the cable you burn it out—so why attempt to speak across the ocean without any wires at all?

"Now from speculation to facts: Not so long ago, at the seashore, I had occasion to talk with an eminent radio man on the subject of radio power. He looked at me sharply, as if he doubted my sanity. Then he made several laconic remarks on the subject and refused to treat it seriously. So I finally told him that the thing had already been done, that power by radio was an accomplished fact, and that thousands of horse-power were being transmitted every day for thousands of miles.

"This statement caused my friend to laugh uproariously, as he naturally assumed it to be a good joke. We were walking along the beach, and I told him that on the spot on which he was standing, right in front of his very nose, there was being transmitted a power of almost three-quarter horse-power per hour to the square foot. My friend still looking bewildered, I continued:

"The sun, 93-million miles distant from you, is shooting energy down to us by means of electromagnetic waves, which you probably will not deny. All wave motions, whether light, heat, or radio, being the same, and varying only as to their length, I believe that I have a perfect right to call light waves radio waves, because all of them are electromagnetic waves, according to Clerk Maxwell, Heinrich Hertz, and many other undisputed authorities. The energy which we receive from our luminary is radiant energy, the same as Marconi's directed radio beam. Both are exactly the same, except that the wave-length varies, radio waves being rather long, while light waves are short. You will also note that the energy which comes to us from the sun comes through space without any conductor whatsoever."

"In Egypt and out West we now have sun-power motors, which deliver quite a good deal of energy per square foot—0.67 horsepower per hour, to be exact. Two or three years ago it was demonstrated by Dr. E. F. Nichols and J. D. Fear, that radio waves can be made so short that they lapse into the heat-wave band. The wave-length used was astonishingly low—only 1-100 of an inch.

"In other words, radio waves have become heat waves. What does all of this mean? Simply this—at some future date it will be possible to transform electrical energy into an electromagnetic wave which can then be radiated from an aerial or other tower into space, to be received at the receiving end with hardly any loss of power. As a matter of fact, I believe that sending power through space will be very much more economical than sending it through conductors, because conductors have resistance, whereas free space has none.

"Naturally the question will immediately arise: Suppose we do accomplish broadcasting of power by radio, what safeguard has the future power company? The answer is simple. If you have a power line running near your property to-day it is an easy matter to tap it and use the power. However, if you have conscience and a proper fear for the law, you will do nothing of the sort, because you know that you would get yourself into trouble with the authorities. You can not steal power any more than you can steal any other commodity. So, finally, when power is radiated by radio or by other electromagnetic means, laws will be enacted to protect the interests that radiate the power. Meters will be installed, and there will be no more stealing of power than there is to-day.

"My friend, while agreeing with me in the main, then had some doubts as to what would happen to radio broadcasting, should radio-power transmission come into vogue. What would happen to the two? Would they not interfere with each other, making one or the other impossible? "I don't believe that this will be the case," I said, "for the following and very good reasons: I have an idea that the power transmission, for reasons I mentioned a little while ago, will be done on exceedingly short wave-lengths—on the order of a centimeter or less. Broadcasting may come down to perhaps one or two, so that I do not think there will be any possibility of interference, any more than sound waves to-day interfere with radio waves."

Women who use it say that Pearlina cleans everything quicker and better than any other washing powder.

Fads and Fashions

Two-piece dresses are still new. There is very little navy blue used. Skirts flare front, back and sides. There is almost no one-piece dress. Capes may be either long or short. Sleeves are certainly wide at the bottom. The newest shoes are in Oxford design.

28 Day Concrete in 24 Hours

That this desirable result has been reached, we are assured by the manufacturers of a new type of hydraulic cement, called in its American form Lumnite, and said to be the outcome of endeavors to bring about quick results in emergency concrete-work during the war. We quote below from an article contributed to the New York Commercial by William Whittam, formerly a special agent of the U.S. Department of Commerce. The new cement, Mr. Whittam asserts, gives a service possible with no other material—full strength 28-day concrete in 24 hours—a saving of time that a competent construction executive can quickly turn into terms of money on any given job. He writes:

"To-day one French concern turns out yearly hundreds of thousands of barrels of cement similar to Lumnite, with the rate of output steadily increasing. Likewise, the British took to the new war-tested cement, despite a reputation for being ultra-conservative in their attitude to innovations.

"This remarkable characteristic of developing greater strength in 24 hours than that developed by other building cements and mortars in 28 days, is due to its chemical composition and results from the use of high-grade aluminum ore (bauxite) as the principal raw material. Bauxite and other raw materials are first burned, and then ground to a considerably greater fineness than that required by standard specifications. It took a ten-year test by the U. S. Bureau of Standards to establish scientifically the advantages of fine grinding. Lumnite is not, however, 'quick-setting.' It affords the usual time for mixing, transporting and pouring into forms. It is after setting that its high strength develops with great rapidity. Mixing and handling methods differ little from those for Portland cement."

Typical laboratory tests confirm the remarkable characteristics of the new cement, we are told. They are thus summarized:

"The most interesting property demonstrated by these tests is the very high strength attained by Lumnite cement at 24 hours, the strength being greater than that of Portland cement at 28 days. The strength of the best 1:2:4 Lumnite cement concrete at 5 days was almost exactly twice as great as the strength of the best 1:2:4 Portland cement concrete at 28 days."

To continue our quotation of Mr. Whittam's article:

"Another service which has distinct value is that 'setting' begins at the interior of the mass, just the opposite process to that followed by Portland cement. The chemical action thus set up generates internal heat, which acts as a substantial protection against frost.

"The bacon with a money back guarantee—Wilson's certified."

"Another characteristic of Lumnite, of no mean value under certain peculiar conditions, lies in the fact that there is absence of moisture during the curing period.

"A sweeping change is now possible in cement-building construction, one which goes 25 per cent. of our Portland-cement production. Build a concrete foundation to-day, put the machine in operation to-morrow. Railroads and traction companies are avoiding costly and irritating traffic interruptions, concrete piles are made, and driven 26 hours later. A two-ton, 54-inch concrete pipe was dropped five times from a height of five feet, without injury, 24 hours after pouring. In the Texas and Mid-Continent oil-fields Lumnite cement is saving days of valuable time in setting casings and insuring protection against collapses and corrosion. Drilling is resumed a day after the cementing of the well.

"In other instances, Lumnite bridges carried locomotives and loaded cars in 48 hours. Again, 26 hours after a Lumnite concrete roadbed was poured, a 32-ton trolley-car was operated and the pavement opened to general traffic. On street work in freezing weather, safety islands were placed in service within 40 hours after pouring. A street intersection in New Orleans, over which some 14,000 vehicles pass daily, was reopened to traffic 24 hours after the placing of Lumnite cement concrete. Indeed, the fact that most of the State highway departments east of the Mississippi and many countries and cities are using Lumnite in increasing volume for highways is convincing proof of its value in speed for road work.

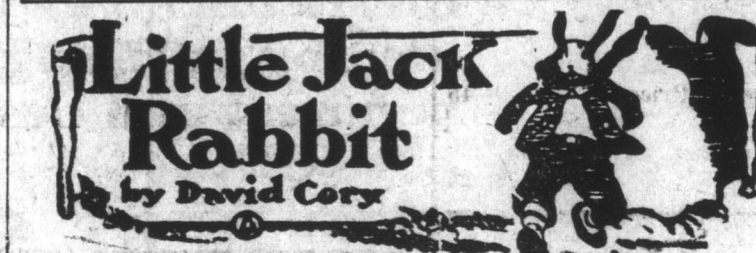
"Besides savings to the owner, the contractor benefits greatly in that Lumnite permits the early removal of forms, reducing form costs by making possible the more frequent use of the same form material.

"So many possibilities are before the user of Lumnite that it would be rash to predict into what new spheres of usefulness users and research men may find a place for it. While it is revolutionary as a cement, only the future can disclose how it will revolutionize processes, equipments, applications and the general conception of the place of cement in the industrial world."

The bacon with a money back guarantee—Wilson's certified." dec.13,25

BOYS and GIRLS

Don't forget the red balls which you get off a package of Lantic Icing Sugar are worth 50 votes each in the Majestic Theatre Pony Contest. You get red balls also on packages of Lantic Granulated and Lantic Lumps, every red ball counts 50 votes. Ask your mother to buy Lantic Icing in pound packages—dec.9,1m



"Dear me, what a narrow escape I've just had!" exclaimed Professor Jim Crow from the top of a clothes post at Little Jack Rabbit hopped through the kitchen doorway with an armful of kindling wood.

"You don't say so," exclaimed the bunny boy. "Tell me more."

"I certainly shall," answered the old crow. "So many dreadful things are being said about me that I must defend myself."

"Goodness me!" shouted the bunny boy in amazement. "Who's calling you bad names?"

"Give you three guesses," replied Professor Jim Crow, looking down into the wondering face of the little rabbit.

"Give you three guesses and maybe more. And perhaps a lollipop from the store."

"Danny Fox," answered the bunny boy. "No," cawed Professor Jim Crow. "Old Man Weasel," suggested the little rabbit.

"Guess again," laughed the old black-bird.

"Mr. Wicked Wolf," shouted the little bunny. "You're a poor guesser," answered the old crow. "Try once more if you want a lollipop from the store."

"Oh dear," sighed the little rabbit, wrinkling his forehead and twinking his pink nose, "who can it be?"

"That's for you to say," smiled the old crow, forgetting for a moment his own troubles. "But I'll give you a clue. He wears overalls."

"The Farmer's Boy," shouted the bunny boy, all excited.

"No, his Dad," answered Professor Jim Crow. "But you've earned the lollipop. Here's a carrot, and the kind old bird dropped the coin into the little rabbit's outstretched paw."

"What did he say?" questioned the curious bunny boy, slipping the Farmer's Boy penny-bag parson, the Carrot Cent, into his pocket. "What did he say about you?"

"He said I was a thief," answered the wise old black-bird sorrowfully. "He even called me a thieving rascal, who picks up the corn as fast as it is planted in the spring."

"Dear, Oh dear, how dreadful," gasped the little rabbit.

"The Farmer forgets the immense numbers of grubs and larvae I pick up when I walk over the newly ploughed field," went on Professor Jim Crow. "They destroy more corn than I could eat in a thousand years."

"Why don't you keep away from the newly planted field?" questioned the little rabbit.

"Ha, ha," cawed the old crow. "I do from Farmer White's. 'He dips

"Give you three guesses" replied Professor Jim Crow

the kernels of corn in far before planting. Tarrad corn doesn't taste nice. I certainly think I'm entitled to a corn feast in the spring considering that later on I eat up grasshoppers, cutworms and beetles, who otherwise would destroy his planting."

"I'm sure I don't know what to say," answered the puzzled little rabbit. "But I've learned something. I must tell mother to-night that in spite of what the Farmer says you do help him in many ways."

Then into the kitchen, with his armful of kindling wood hopped the little bunny as Professor Jim Crow winged his way into the next story.

George F. Kearney

Caution

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P.S.—One Bottle of Bricks Tasteless and you receive 1200 votes in the Pony Contest at Majestic Theatre. You can purchase Bricks where you like and return us the outside Carton and we give you Coupon for 1200 votes.

McMurdo's Xmas Store News

XMAS GREETINGS 1925	The Spirit of the great Holiday is in the air. Everybody's thinking anxiously about "What to Buy."	XMAS WISHES 1925
<p>HIGH CLASS PERFUMES Houbigants Le Temps Des Lilas. Houbigants Quelques Fleurs. Houbigants Buddha. Houbigants L'Ambre. Roger & Gallett Violet Merville. Roger & Gallett Le Jade. Pivers Azura. Pivers Le Trefle. Pivers Floramye. Courvoisiers Lily of the Valley. Lavender Water. Eau De Cologne. Toilet Waters.</p>	<p>QUALITY BATH SALTS Houbigants Bath Cubes. Houbigants Bath Salts. Bronnleys Bath Cubes. Bronnleys Bath Salts. In Rose Bowls, Fancy Jars, Puff Bowls and Bottles. Houbigants Bath Powder. Ashes of Roses Bath Powder. Mavis Bath Powder. Soana Bath Powder. Talcum Powders.</p>	<p>TOILET REQUISITES Brush and Comb Sets. Manicure Rolls. Manicure Sets. Meritor Hair Brushes. Baby Brush Sets. Hand Mirrors. Perfume Sprays. Fancy Powder Bowls. Houbigants Compacts. Pompeian Compacts. Colgates Compacts. Beautiful Silk Novelties.</p>

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