

The Newest Notes of Science

Glasgow has the largest individual... Boiling hay in water in iron-kettles will remove rust from them. A German breeder is successfully hatching ostrich eggs in an incubator. The United States has about 50,000 more miles of railroad than all of Europe. A new container for a dozen eggs that holds them safely resembles a music roll. The only complete ancient Roman standard in existence is owned by an Englishman. About the smallest eye shade yet invented is worn on the nose like a pair of glasses. Two Frenchmen living in Cochin China have invented a wine made from the juice of bananas. Frozen beets have been found to contain a poison deadly to live stock, even when thawed and cooked. Hollow concrete telegraph poles, built up around bases of wood and steel, have been invented in Germany. If all the land above sea level were spread uniformly over the world it would form a sheet about 650 feet thick. Geologists have estimated that more than 24,000,000 tons of coal remain to be taken from the fields in Wales. The edges of a recently patented shovel are reinforced and sharpened so they can be used to cut roots or buried wood. Europe's best lighted cities, in proportion to population, in the order named are Petrograd, Vienna, Paris and London. A gauge indicator with which the size of wire can be measured features the handle of a new knife intended for electricians. Under the direction of two experts from the United States, China will establish a school of forestry at Nanking university. To keep a man's head cool there has been invented a tiny electric fan, operated by a dry battery, to be worn inside his hat. London's annual fall of soot, according to careful estimates, amounts to 25 to 35 pounds for each inhabitant of the city. It has been discovered by a Saint Louis physician that an electric soldering iron can be used successfully as a surgical cauterizer. Australia's gold production has declined steadily since 1903, last year's output being 156,160 ounces less than the year before. A novel telephone receiver shuts out all outside noises or may be used to permit two persons to listen to a conversation at once. By the opening of a wireless station at Belize recently British Honduras was given radio communication with the rest of the world. A process invented by an Italian chemist for extracting the essential oils from citrus fruits is said not to

affect the chemical properties of the oils in any way and it is predicted that it will revolutionize the industry. Photographically to measure and record the vibration of a machine or building is the purpose of simple apparatus invented in England. A new household convenience is a spigot so-mounted that it will deliver hot or cold water to a kitchen sink, laundry tub or wash basin. Italian scientists recently recorded a temperature of 113 in the victim of a lung disease, the highest figure ever known in a human being. An electric cigar lighter has been invented which may be connected with a lamp socket in an automobile and used while a car is in motion. There is a breed of cattle in the Samoan Islands the bulls of which seldom weigh more than 200 pounds and the cows seldom more than 150 pounds. One of the newer mine rescue devices is an oxygen apparatus so light in weight that a man can carry several of them to where they may be needed. Backed by United States capital, efforts are being made to reopen the copper mines of Cyprus, in ancient times among the richest in the world. A swiveled clamp to hold a funnel on a bottle and leave one hand free when liquids are being poured has been patented by a Californian inventor. A new high record for Philippine sugar production since American occupation of the islands was made last year, 232,761 long tons being exported. For hotel use there has been invented a cabinet to hold towels, so constructed that each guest can have a clean one, but none of them can be stolen. A method for sterilizing against insect, germ and fungus life the ground into which posts are to be set has been invented by an Austrian scientist. For shipping butter by mail without melting there has been invented a double walled paper carton inside which the temperature alters very slowly. Forcing plants by immersing their branches and leaves in hot water while the earth is kept dry has been found very advantageous by a German florist. A fountain tooth brush is a constant flow of cleansing liquid from the handle to the bristles as long as it is in use. The supporting surface of a new French aeroplane is semi-cylindrical and the covering can be reeled at both sides separately or together to help guide it. New in the line of inventions for saving life at sea is a projectile carrying breeches buoy tackle to be shot from a ship to land, where it anchors itself. In the last 38 years England has lost 6,650 acres of land by sea erosion and has reclaimed 48,000 acres, mainly through material brought down by rivers. Of the 46 epoch-making inventions the United States produced 29, England seventeen, France ten, Germany five, Italy, two and Austria, Brazil and Sweden each one. Even the freshest bread can be sliced evenly without breaking by a utensil invented by a Massachusetts man in which slotted sides guide a knife and at the same time hold a loaf firmly. Chile claims that the island of Chiloe, off its west coast, is the original home of the potato, having been cultivated there since early in the fifteenth century. To permit a woman to carry a baby, yet have her hands free to carry packages or an umbrella, a basket with straps to suspend it from the neck is being marketed. A motor-driven freight sled, propelled by a drum between the rear runners, was operated very successfully near Vienna while snow remained on the ground last winter. So that shoes can be made to look new as long as possible, metal guards have been patented to protect the stitching in their extension soles while they are being blackened. If harnessed, it is estimated that the Victoria falls of the Zambesi river in Africa would furnish 35,000,000 horsepower, or more than derived from coal and oil in the world today. Small transformers, which can be screwed into electric-light sockets to permit the use of low-voltage lamps on high-voltage circuits, are a German novelty. A new garbage-pail holder raises it from the ground out of the reach of animals, protects it from rain and surrounds it with a shield for the sake of appearance. To make a hen take exercise while she is eating, a Californian has patented a feeder that releases but a few grains of feed at a time and then only when a fowl jumps on a lever to open a valve. Females of the Austrian wild turkey lay eggs in common nests holding half a bushel or more, cover them with soil and decaying vegetable matter and leave them for the heat of decomposition to hatch. Lining the inside of an incandescent lamp with a film of silver, thin enough to be transparent, a San Francisco inventor has patented a light which he claims radiates no heat, the silver stopping the infrared rays. A tumbler of water will serve as a safe candlestick if a small ball be driven into the bottom of a candle to make it float upright. Fruit Growing in Ontario. Ontario orchardists are quite hopeful of solving the question of a possible over-production of fruit, judging by the prevailing tone of the discussion upon that subject are given in the forty-sixth annual report of the Fruit Growers' Association of Ontario, just issued by the Ontario Department of Agriculture, a copy of which may be had free upon application. The matter of marketing fruit, both by co-operative associations and the more common method of commission men and retailers, is also very fully dealt with in the report, and considerable information is given regarding the latest methods of precooling the transportation. In addition practical hints and given concerning the selection of nursery stock for orchards, and the spring and fall planting of fruit trees—the latter models increasing in favor—together with considerable other matter of a cultural nature. Results of experiments with peach canker are also presented. What He Found. Boarder: "I found something in my bedroom last night, madam, and—" Landlady (indignantly): "There's no such thing in the house! You must have brought it in with you!" Boarder: "Ah, perhaps I did—it was a dollar bill." Sometimes the most just laws in force are those of custom.

Easy & Practical Home Dress Making Lessons

Prepared Especially For This Newspaper by Pictorial Review

A VACATION FROCK IN CREPE.

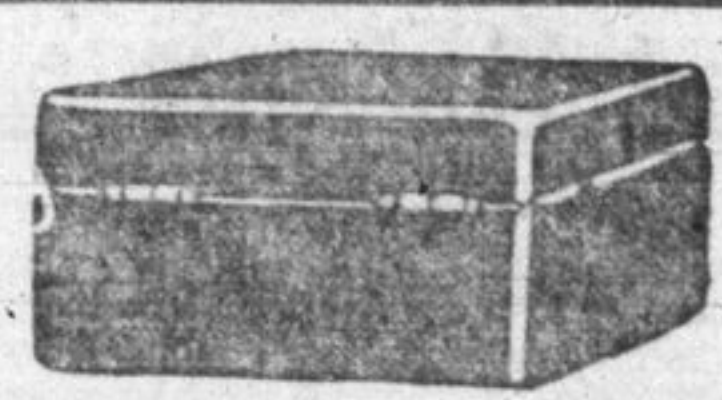


the new shirred effects. Of course the softest of materials are required for the development, 6 yards 44 inches wide being required in this instance. The model requires 4 1/2 yards of 27-inch lining, which is first fitted, then cut out at the neck in the desired shape. Now close under-arm and shoulder seam of outer front and back, gather lower edge and arrange on lining. Close the sleeve seam and turn under lower edge on slot perforations; stitch about 1/4 inch from fold, insert cord and draw in the required size. Gather and sew in armhole as notched, bringing small "o" perforation to shoulder seam. The skirt needs thoughtful management. First, close back seams of the

five lower sections. Turn under lower edge of small "o" perforations; stitch the lower section 1/4 inch and remaining sections 1/4 inch from folds, inserting cord. Gather upper edges between double "T" perforations. Join sections as notched, centers even. Gather entire upper edge. Adjust skirt, stitching over lower edge of outer front and back, centers even, large "O" perforation at under-arm seam. Crease bertha on lines of small "o" perforations and stitch 1/4 inch from folded edges, inserting cord; adjust on outer front and back, centers and upper edges even, drawing the cord to fit, and stitch the upper edges together, single large "O" perforation at upper edge of bertha at shoulder seam. Cross in front as illustrated.

Graceful in its delineation of shirred effects is this summer frock in white crepe. Any soft material may be used instead of the crepe. For the summer girl's wardrobe there are very beautiful frocks developed in Pictorial Review Costume No. 6153. Sizes 14, 16, 18 and 20 years. Price, 15 cents.

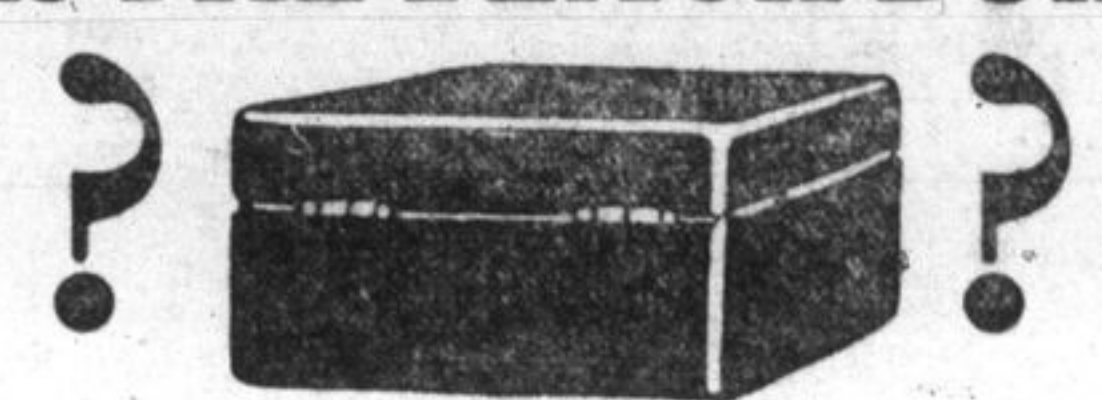
He is past master of the art of selling a story. He has humor, a keen sense of the dramatic, and a knack of turning out a happy ending just when the complications of the plot threaten worse disasters. New York Times



He is always master of his material and of his method. His characters never master him; he is always superior to his creations. Possessing the skill of the master craftsman, one finds the result worked out to a satisfactory finish. Brooklyn Eagle

The New Oppenheim Story is mysteriously called The Black Box

and the question naturally arises WHAT is THE BLACK BOX



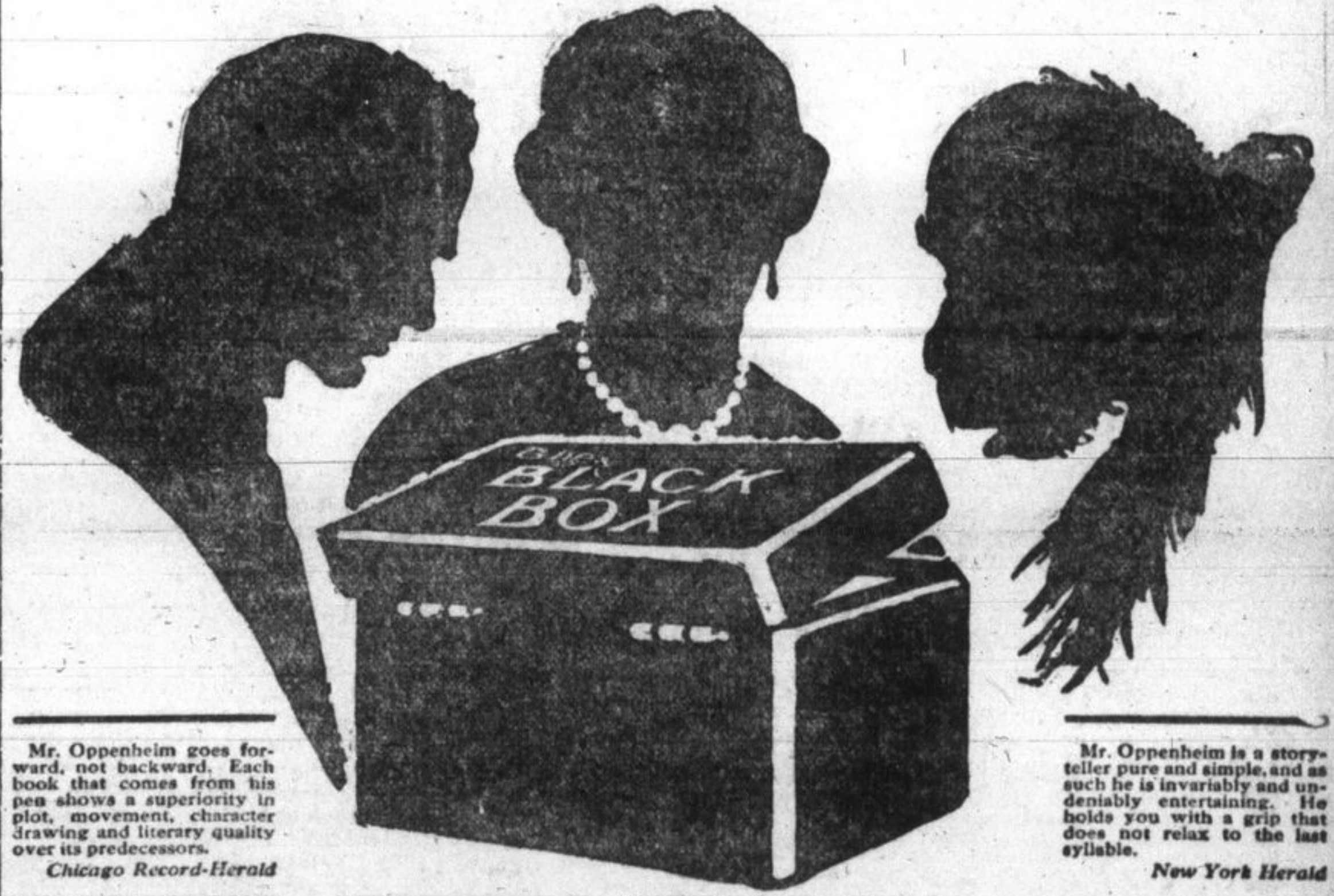
Oppenheim has the knack of tangling the threads of his narratives in such a manner that the reader will not get until they have been straightened to his satisfaction. New York Evening Sun

Mr. Oppenheim has few equals among modern novelists. He is prolific, he is untiring in the invention of mysterious plots, he is a clever weaver of the plausible with the sensational, and he has the necessary gift of facile narrative. Boston Transcript

Your Favorite Moving Picture Theater is Showing the Thrilling Pictures Produced by the Universal Film Mfg. Co.

Read this Unique Story by E. Phillips Oppenheim now appearing in

THIS NEWSPAPER



Mr. Oppenheim goes forward, not backward. Each book that comes from his pen shows a superiority in plot, movement, character drawing and literary quality over its predecessors. Chicago Record-Herald

Mr. Oppenheim is a storyteller pure and simple, and as such he is invariably and undeniably entertaining. He holds you with a grip that does not relax to the last syllable. New York Herald

This story appears in the Whig every Saturday. The pictures are shown at the Ideal Theatre every Monday and Tuesday.



Training the Soldier Boys to Shoot. Fenian Raid Veteran Had Nervous Prostration

Mr. F. T. Carr, familiarly known as Capt. Carr, Stoughton, Sask., writes:—"I have Dr. Chase's Almanac of several years back on file in my home, and prize them highly. I can recommend Dr. Chase's Medicine, and particularly the Nerve Food, because it completely restored me to health and nerve strength when I was suffering from an attack of nervous prostration, sleeplessness and neuralgic pains through the head—almost unbearable pain and misery. My sickness resulted from overwork and worry—utterly exhausting my whole nervous system. Dr. Chase's Nerve Food cured me completely, so that I felt like a new man, and fit to tackle anything. This experience happened eight years ago, and I have been a well man ever since. I hereby affirm that this statement is true and correct in every particular."

Nervous troubles are so little understood that many people who could easily be cured in a few weeks by the use of Dr. Chase's Nerve Food allow their nervous systems to become completely run down. Cure is then most difficult, and at best is a slow, tedious process. You find yourself not feeling first-class, you do not sleep well at nights, your digestive system fails in its work, you have headaches, it may be, and are irritable and easily annoyed. Possibly you have not recognized these as the warning symptoms which indicate exhaustion of the nervous system, but such they are, and in nervous troubles, as in many others, an ounce of prevention is worth a pound of cure. There can be no doubt in regard to Dr. Chase's Nerve Food as a restorative of the nervous system. Particularly at this season of the year, when the changing temperature is so trying on the human body, people everywhere are proving the wonderful revitalizing influence of this great food cure. Just read what Mr. Carr says about it.

50 cents a box, 6 for \$2.50, all dealers, or Edmansson, Bates & Co., Limited, Toronto.

Insist on getting what you ask for.



Dr. Chase's Nerve Food

Dr. Chase's Recipe Book, 1,000 selected recipes, sent free, if you mention this paper.

MADE IN CANADA

Join "the live-a-little-longer movement" by cutting out heavy, indigestible foods—the kind that harden the arteries and put the liver out of business. SHREDDED WHEAT supplies all the material needed for building the perfect body and for keeping the mental and physical powers at top-notch efficiency with the least tax upon the digestion. It is ready-cooked and ready-to-serve—always the same quality, always the same price.

Shredded Wheat is made in two forms, BISCUIT and TRISCUIT—the Biscuit for breakfast with milk or cream, or with fruits; Triscuit, the water-toast, delicious for luncheon with butter or soft cheese, or for any meal as a substitute for white flour bread.



Made at Niagara Falls, Ontario

Toronto Office: 49 Wellington Street East

Cook's Cotton Root Compound. A safe, reliable regulating medicine. Sold in three doses of strength—No. 1, \$1; No. 2, \$2; No. 3, \$3 per box. Sold by all druggists, or sent prepaid on receipt of price. Free pamphlet. Address THE COOK MEDICINE CO., TORONTO, ONT. (Toronto Station.)

Zbar's Ice Cream Parlor. Ice Cream in bulk delivered to all parts of the city. Phone 1129 or call at 280 Princess Street. Choice Fruits and Candies of all kinds.

MR. PROBABLE BUILDER. We want to talk to you about your PLUMBING WORK. We can make it worth your while—when you're ready—to engage us. We are simply taking this method to get acquainted. That we are Expert Plumber and Steam Fitters, you can easily learn by investigation. DAVID HALL, 66 BROCK STREET.