

BIRD'S Art Craft Roof

RED OR GREEN



Canada's Roofing Sensation

YOU are going to hear a lot about ART CRAFT, the new roofing sensation, and you're going to want it on your roof for several very good reasons.

ART CRAFT saves time, trouble and labor cost. It can be applied right over the old shingle roof, or it can be applied directly to the roof boards for new work.

It is as handsome as it is durable. That's saying something, because it gives years and years of roof protection, free from upkeep cost.

A weather-proof, fire-safe roof is what you want and what you get.

And last, but most important, ART CRAFT is low-priced and inexpensive to apply. Comes in two colors—red or green.

Now will you come in and let us give you an estimate on Art Craft for your home?

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- 20 pairs Child's Sneakers, sizes 9 and 10. Regular price \$1.10 for 55c
- 50 pairs Men's Brown Boots, up-to-date lasts. One of our famous leaders at \$3.90 for \$3.51
- Another of our leaders the five dollar men's high toe Banker for \$4.50
- Our latest Slater Oxford at \$7.50 for \$6.75
- 30 pairs Men's Oxfords at \$3.50. Good makes, recede and medium toes.
- All Polishes, Laces and other shoe findings 10 per cent discount and a good brown 36 inch lace at 1c each.
- 300 pairs Women's Pumps and Oxfords, sizes 3 to 5 1-2, mostly high heels \$1.50
- 50 pairs Women's Pumps, sizes 1 1-2 to 2 1-2, canvass and high heel, satin 60c
- 400 pairs ch. patent strap Slipper, sizes 3 to 6. Special 75c
- 300 child's Boots. Special at 95c. Worth \$1.20 to \$1.50
- 300 infants soft soled boots 60c
- Our leader in boys fine black calf boots \$2.60 for \$2.36 and our boys Car-Ferry in brown or black \$4.50 for \$3.90

JUST RECEIVED

Special for this sale 100 pairs boys box kip boots at \$2.60. All sizes. Also 60 pairs boys brown calf oxfords Banker \$4.50 less 10 per cent.

Goff Bros Ltd.



New York's squad of motorcycle police now includes the radio officers. This photo shows how they work.

Scientific Miscellany

The Great Migrants-Lamps for Head Wear-Antiseptic Tre Staining-Making Wood Fire-proof-New Stars-The Cost of Daylight-Selenium and Tellurium-An Efficient Engine-Sprong Iron.

Bird migration pronounced the greatest mystery of the animal world has had many curious explanations. A. W. Schorger notes in American Forestry that many naturalists formerly shared the popular belief in the winter sleep of birds in caves and hollow trees but that there were stranger theories. Cotton Mather having imagined that wild pigeons flew away to an undiscovered near satellite of the earth. It is now understood that the bird population of the world quite generally shift their homes twice yearly. Studies in North American have shown that many birds go south in winter from the United States and farther north, and a principal migration route includes 500 to 700 miles across the Gulf of Mexico while water birds make the 2400 mile flight from Nova Scotia to South American. The greatest of bird travelers the Arctic tern journey 11,000 miles from its breeding place in the extreme north to its winter home in the Antarctic region. The migrants are exposed to many dangers and in March 1904 two small Minnesota lakes were covered with 750,000 Sapsucker long-spurs that had perished in a snowstorm in their flight north.

The work illuminating spotlight of A. Pimental, a New York inventor, has the form of a pair of spectacles, as it consists of two electric light bulbs placed in a pair of parabolic reflectors attached to a pair of spectacle bows. Each reflector has an opening for the eye to see through and a screen protects to eye from the direct rays of the filament. Objects within 300 feet may be brightly illuminated giving aid for such work as that of dentists, doctors, watchmakers, machinists and many others.

As a disinfectant of wounds in pear trees found necessary to guard against pear blight, the California Department of Agriculture has obtained the best results from a mixture of one ounce each of mercuric chloride and mercuric cyanide in four gallons of water. The mercuric

chloride was found most suitable for disinfecting the pruning tools. Various methods using numerous chemicals have been tried in the effort to make wood fireproof or fire resisting. In the recent series of tests at the University of British Columbia, the wood was treated by immersion in cold solutions immersion in hot solutions, impregnation under pressure in an auto-clave, and impregnation first in a Vacuum in an auto-clave, and then under pressure. The fourth method with a pressure of 50 to 60 pounds per square inch, introduced the greatest quantity of the salts used. Some of the materials tried seemed to increase inflammability rather than to lessen it and wood impregnated with bismuth, cupric and ferric chlorides and barium sulphate ignited below 490 deg Fahrenheit. The fire-resistance of sodium and ammonium chlorides and aluminum sulphate were slight. Calcium, magnesium and zinc chlorides, ammonium sulphate, borax, and sodium silicate were among the materials that had a retarding effect, and were proof against temperatures above 5000 Fahrenheit. Ammonium phosphate, emitting an incombustible gas and coating the wood fibers with orthophosphoric acid, was the most effective of any salt tried.

The so-called new stars or "novae," of the Milky Way have been found by Prof. E. E. Barnard to be best explained as the result of internal disturbance producing explosion, which, while causing great temporary brilliancy, does not destroy the star. The sudden brightness soon begins to fade, but some years may be required to reach the original faintness and the small magnitude. Most of the novae are found to have been originally small variable stars, but the great outburst seems to be only an interruption or brief change in the normal variability, to which they return. A fading nova sometimes shows a well defined planetary disc instead of the luminous point characteristic of stars.

Costing nothing in the open natural light is fairly expensive indoors, according to the conclusions of M. Luckiesh and S. S. Holladay Canadian engineers. The outlay includes the expense of window and skylight cleaning and replacement of glass, increased heat loss from glass in walls, value of the space occupied by windows, and in congested areas the expense of light and electric cost of natural light. The cost of natural light is apparently about the light but it is believed that windows and light courts may eventually be eliminated in crowded parts of cities.

Two by products of the mining industry that are not yet extensively produced or called for are selenium and tellurium. F. F. Colcord in the Engineering and Mining Journal Press, notes that first recovered from sludge in the manufacture of sulphuric acid, is now obtained in electrolytic copper refining and in the last score of years has been coming into limited use. The first application was for selenium cells in telegraph communication such cells being unique in their great variation in electrical conductivity under the action of light. Selenium was then used in the manufacture of red or orange-colored glass, and red enamel ware, and more recently has been found of value as an addition to molten glass to replace imported green color manganese dioxide as a decolorizer. Some selenium is now exported the total consumption in the United States and part of Europe being apparently about 79,000 pounds yearly. Tellurium, also obtained in copper refining and to some extent in lead refining has been used in small quantities with zincite crystals for radio detectors, the efficiency of gasoline engines, but the uncertainty of the tellurium supply seems to have prevented trial on a commercial

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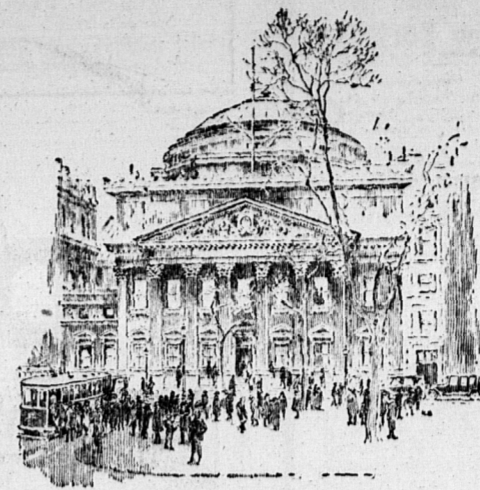
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