

Scientific and Useful.

THERE is no better place to buy dry-goods in Toronto than C. Page & Sons, 194 and 196 Yonge St.

THIS is the time of the year that you paper your rooms. You can't be too careful in selecting appropriate patterns. James Thomson & Son, 364 Yonge St., will greatly aid you in this, as he has a splendid assortment.

IMPURE RAIN WATER.—It is worthy of notice that two ounces of borax will clear a twenty-barrel cistern of rain water that has become impure. In a few hours the sediment will settle, and the water be quite clear for washing purposes.

LEMON CAKE.—One pound flour, one of sugar, three-fourths pound butter, seven eggs, juice of one and rind of two lemons. The sugar, butter, and yolks of eggs must be beaten a long time, adding by degrees the flour, and the whites of eggs last. A tumbler and a half of sliced citron may be added. This keeps well.

BOILED PIKE AND EGG SAUCE.—Clean the fish, trim off the fins, but leave on the head and tail, and truss in the form of the letter S. Place it in a fish kettle in water enough to cover with one gill vinegar, two tablespoonfuls salt, one sprig each of parsley and thyme, one bay leaf and six cloves, and cook fifteen minutes, skimming well. It will generally be done as soon as the water begins to boil, but it can be tried by pulling off a bit of the tail. If it comes away easily it is done. When cooked remove the kettle from the fire, but leave the fish in the water until ready to serve, when remove the skin, place on a folded napkin, and garnish with sprigs of parsley or a cut lemon. For the egg sauce stir a tablespoonful of butter and flour over the fire until they bubble; then add slowly a half-pint of boiling water, and stir until smooth; season with one teaspoonful salt, one quarter teaspoon each of pepper and grated nutmeg, and add a hard-boiled egg, cut into small dice.

TO UTILIZE OLD FRUIT CANS.—"The Scientific American" publishes a plan which looks as though it might reduce the chances that the earth's surface will shortly be covered with old tin cans in a battered and useless condition. The can is pierced with one or more pin holes, and then sunk in the earth near the roots of the strawberry or tomato or other plants. The pin holes are to be of such size that when the can is filled with water the fluid can only escape into the ground very slowly. Thus a quart can, properly arranged, will extend its irrigation to the plant through a period of several days; the can is then refilled. Practical trials of this method of irrigation leave no doubt of its success. Plants thus watered flourish and yield the most bounteous returns through the longest droughts. In all warm localities, where water is scarce, the planting of old fruit cans, as here indicated, will be found profitable as a regular gardening operation.

ARCTIC DISCOVERIES.—Capt. A. B. Tuttle, an Arctic navigator, has been giving his views to the St. Louis "Republican." He was with the Japan expedition last year, and encountered the ice-belt in latitude 51. By climbing to the highest points on the icy barrier he could see directly into an open polar sea lying beyond, and by tracing along the belt eastwardly he found a passage through it into the sea with a depth of ninety fathoms. The water was warm, and a stream was steadily setting out with a velocity of from four to six miles an hour. He pulled through this passage in a whaleboat, and found it to be about eighteen miles wide. In the north part of this open sea he found almost fresh leaves of plaintains, bananas and other tropical plants floating on the water. In October he found a large female whale going north through the open passage before mentioned, and also saw migratory birds going north. In July these birds went south again with their young, and about the same time he observed whales going south with their young. Capt. Tuttle believes that the open polar sea can be explored, and he is going to Washington to lay his observations and plans before the Government.

IS THE MOON INHABITED?—A great change is taking place in our views in regard to the moon, and it may be that we are on the eve of discoveries which will make this century an epoch in astronomical history. Some American observers saw not long since a crater on the lunar surface in active operation under conditions as reliable as human

vision at such a distance can be expected to reach. A French astronomer has made observations on a grander scale, and confidently asserts that the moon is inhabited! M. Camille Flammarion, the present originator of this long-cherished idea, is a scientist of honour and renown, well known for his reputation as an observer and enthusiastic writer. He has written several articles to prove his position, and has determined to devote his life to this branch of astronomical research. No instruments on the globe are powerful enough to afford a glimpse of our lunar neighbours. M. Flammarion is not in the least discouraged at this apparently insuperable obstacle in the way of a solution of his problem. He is going to have one made that will exhibit the men in the moon to terrestrial eyes, without a possibility of mistake. He is urgently soliciting contributions to a fund for an immense refracting telescope, whose estimated cost is a million francs, or two hundred thousand dollars. This instrument, the astronomer believes, will be effective in revealing the inhabitants in the moon really existing, according to his sanguine faith. Some of the largest refractors in the world, if used when the air is pure, bear a power of three thousand on the moon; that is, the moon appears as if it were at a distance of eighty miles instead of two hundred and forty thousand.

WHY SO DEPRESSING?—During the early spring months it is common to hear persons speak of their feelings in the manner the London "Lancet" describes, as follows: "Unwonted depression and uneasiness, accompanied with loss of appetite and inability to sleep, are the prevalent causes of complaint just now among the 'tolerably well' section of the community; and, with a large measure of accuracy, the condition, modified as it is by individual peculiarities of state and idiosyncrasies, is attributed to the weather. The relations which subsist between such mental depression as constitutes melancholia and the defective discharge of its functions by the skin may help to explain the phenomenon. The connection of cause and effect may not be clearly made out, and the part which the nerve-centres play in the production of the result may be as obscure as that which they exercise in the control of occasional pigmentary deposits; but the broad fact remains. When the skin does not act freely, when its functions are seriously impeded or arrested, melancholy broods over the mind, just as in the case of a subject of melancholia, as a formulated disease, the skin becomes dense and inactive. It is not a random conjecture, therefore, that the intense and prolonged, albeit unaccustomed and unexpected, cold and damp, work their depressing influences mainly through the skin. This is a trite remark, but it is one that may with advantage be made just now, because in the interests of health-preservation, especial pains need to be taken to secure the freest possible action of the great surface system of excretory glands and the transuding apparatus generally. Warmer clothing, especially at night, frequent ablutions, with sufficient friction, and the promotion of skin activity by every legitimate form of exercise, are obvious measures of health which everybody ought to understand and all should practice."

ON TRIAL.

'Canadian Independent.'

Four Months for 25 cents.

Subscribe at Once.

Address,

J. B. SILCOX,
340 Spadina Avenue, Toronto.

BUCKEYE BELL FOUNDRY
Bells of Pure Copper and Tin for Churches,
Schools, Fire Alarms, Farms, etc. FULLY
WARRANTED. Catalogue sent Free.
VANDUZEN & TIFT, Cincinnati, O.

"THE MAGNETICON."

The Celebrated English Magnetic Appliances
FOR THE CURE OF DISEASE.

CANADIAN OFFICE:

125 CHURCH STREET, TORONTO.

These appliances are at once a direct assistance and safeguard, as they not only possess strong curative properties, but are also a most valuable preventive. By their invigorating and vitalizing influence constantly exerting much of the liability to disease or suffering, and daily adding to the strength and vigor of the constitution. Thus the various appliances may be used with immediate and permanent benefit by the strongest man, or the most delicate invalid or child. They comprise—

THROAT & LUNG INVIGORATORS.

For all diseases and weaknesses of the Throat and Lungs, and affections of the Chest generally.

LADIES' AND GENTS' BELTS.

For any general weakness of the Constitution, Indigestion and all other difficulties of the Stomach, Liver, Kidneys, etc., Lumbago or Weak Back, Internal weakness of any kind, Constipation, Physical or Nervous Exhaustion, etc., etc.

The Ladies' Support and Abdominal Belts are of incalculable benefit, averting the Nervous prostration from which thousands of ladies suffer so intensely. The use of these Belts is more particularly referred to by correspondence or consultation.

SPINE BANDS.

For Spinal Weakness or Injury, Neuralgia, and all Nervous affections, Sleeplessness, Paralysis, Headache, etc.

KNEE CAPS, ANKLETS,

WRISTLETS, SOLAS,

AND VARIOUS OTHER

APPLIANCES.

They are simple and convenient cannot get out of order do not interfere with any business or occupation, may be laid aside at any time, require no preparation or connection with acids, are not worn in contact with the skin, and thus cause no irritation or unpleasantness, and being arranged on the latest scientific principles, they combine many points of excellence which are not possessed by any other Electric Appliances, a fact at once demonstrated by comparison.

Price from \$1.00 to \$10.00. Consultations Free.

The Magneticon appliances are manufactured only by MESSRS. WETTON & CO. of London and Cheltenham, England, Edinburgh and Glasgow, Scotland, Dublin, Ireland, and Toronto, Canada.

Illustrated Pamphlets, containing Price Lists, Testimonials and all information are supplied free on application, or sent by post to any address. The Appliances are also sent by Post or Express, to any address, on receipt of price.

THOS. J. MASON, American Representative,
125 CHURCH STREET, TORONTO.

COPY

Of Official Report of Award to DOMINION ORGAN COMPANY, Bowmanville, for Organs exhibited at the Centennial Exhibition, Philadelphia, 1876.

INTERNATIONAL EXHIBITION. (No. 235)
PHILADELPHIA, 1876.

"The United States Centennial Commission has examined the report of the Judges, and accepted the following reasons, and decreed an award in conformity therewith."

PHILADELPHIA, December 5th, 1876.

REPORT ON AWARDS.

Product, REED ORGANS. Name and address of Exhibitor, DOMINION ORGAN CO., Bowmanville, Canada.

The undersigned, having examined the product herein described, respectfully recommends the same to the United States Centennial Commission for Award, for the following reasons, viz:—

"Because they have produced in their instruments a pure and satisfying tone, by their method of voicing, and have a simple and efficient stop-action, with satisfying musical combinations, an elastic touch, and good general workmanship."

H. K. OLIVER, Signature of the Judge.

APPROVAL OF GROUP JUDGES.

J. SCHIEDMAYER, WILLIAM THOMPSON, E. LEVANSKY, JAMES C. WATSON, ED. FAYRE PRERRET, JOSEPH HENRY, GEO. F. BRISTOW, J. E. HILLARD, P. F. KUKA, F. A. P. BARNARD
A true copy of the Record. FRANCIS A. WALKER, Chief of the Bureau of Awards.
Given by authority of the United States Centennial Commission.
A. T. GOSHOEN, Director-General. J. L. CAMPBELL, Secretary. J. R. HAWLEY, President.

The Company were awarded a Medal and Diploma, at the Sydney Exhibition, Australia, 1877 Gold Medal at the Provincial Exhibition, Toronto, 1878 the highest award ever given for Reed Organs. Large reduction made to Ministers and Churches. Send for a price list to Henry O'Hara, Special Agent DOMINION ORGAN CO., Bowmanville. Also, General Agent for the Bradbury Piano, of New York. Noted for finish, sweet tones, and singing qualities. Selected for the Executive Mansion, Washington, by both Mrs. Grant and Mrs. Hayes, who with others bear the highest testimony to their superiority. Send for illustrated price list to HENRY O'HARA, General Agent, Bowmanville.