

Scientific.

THE MINIATURE TELEGRAPH.

In the office of the Scientific American they have a very simple and convenient little electrical device, which consists of a pretty little electric bell, placed upon the desks in the various departments. From them wires extend to the desks of the managers, on which buttons are fixed, which connect with the wires. When the manager wishes to communicate with any particular person on the premises, he touches the button corresponding to the wire leading to the bell where the individual is at work. The touch sounds the bell, and, as a variety of signals may be sent, one bell may serve to signalize different persons who are within its hearing. Previous to its introduction, it was necessary to employ messengers, who did little else than run from one part of the premises to another, consuming time and making mistakes. This miniature telegraph saves all such troubles, and enables the manager, without leaving his seat, to communicate instantly with all the principal persons employed in the concern. The cost is only \$5. For this sum, the manufacturers supply one of the bells, together with connecting wires, chemicals, and a small battery, all complete for use.

A NEW LIFE-BOAT built wholly of cork and cane, was tried for the first time at Liverpool recently, and was found to be in many respects an improvement on the boats generally in use. It weighs only one third as much as the boats constructed out of ordinary materials. Its strength and elasticity are such that it cannot be broken by rough usage. It is self emptying, and cannot be capsized in any sea. It can be launched without the aid of davits and tackle, and it is less costly than any other so-called life boat. The trial was as thorough and severe as it could be made, but it proved successful in every way, answering the representations of the inventor, Capt. G. J. Coombe, of Liverpool.

A MAMMOTH CHEESE.—The Painesville (O.) Telegraph describes a mammoth cheese which lately passed through that town on its way East. It was mounted on a substantial platform to which were attached small cast iron wheels, so that it easily moved, and the platform in turn was mounted on a heavy lumber wagon, drawn by two span of horses. The cheese was cased in a tight fitting cheese box which was firmly secured to the platform to prevent sliding. Its measurement is: High, 2 feet 2 inches; diameter, 5 feet 4 inches, and circumference 16 feet. Its net weight is four hundred and fifty pounds. In quality, it is said to be fully equal to any of the Carter cheese, which stands so prominent in every market. It was manufactured for Messrs. Gass, Doe & Chapin, of Boston and will be cut for the holidays.

PROPOSED TUNNEL BETWEEN SCOTLAND AND IRELAND.—For many years there have been projects more or less before the public for uniting Scotland and Ireland by means of a tunnel; and the scheme has recently been again put forward; this time, however, with some reasonable probability of its being carried out. A single line tunnel, 16 feet wide at base, 25 feet wide at the maximum, and 21 feet high, the side walls of which would vary from 4 to 7 feet in thickness, is estimated by the present projector to cost nearly \$23,000,000, with the approaches. The length of the tunnel would be about twelve miles and it would extend from a point on the north shore of Ireland, near Belfast, under the Irish sea, to the extremity of the peninsula opposite in Scotland.

The largest bar of gold ever produced was lately made up for exhibition at Helena, Montana. Its value was \$50,000; weight, about 172 pounds; fineness 900.

Coal has been discovered in the diamond fields of South Africa, and is sold there at \$11 per bag of 200 lbs.

Dr. Huggins has discovered, by the movement of the lines in the spectrum that the star Arcturus is approaching the earth at the rate of about 50 miles per second.

DIAPER FOR OIL COLORS AND VARNISHES.—Water 100 parts; gum lac, 12 parts; borax, 4 parts.

WINTER WILL NOT LAST FOREVER.

Winter will not last forever; Spring will soon come forth again, And with flowers of every color Deck the hillsides and the plain, Lambs again in fields be sporting, Birds re-echo from each tree. "Winter's gone! its days are ended! We are happy—we are free!" Hedge and tree again be budding, Again with leaves be covered o'er. Winter will not last forever; Brighter days are yet in store!

Sorrow will not last forever; Brighter times will come again, Joy our every grief succeeding, As the sunshine after rain; As the snow and ice in winter Melt at the approach of spring, So with all our cares and trials Joy and peace and comfort bring. When the heart is sad and drooping, Think, though you be vexed and sore, Sorrow cannot last forever; Brighter days are yet in store!

The Christian Union of Jan. 8, 1873, says: "A man in New Hampshire bought four swarms of bees ten years ago, and now has an income of \$1,200 a year from honey. Go and buy four swarms of bees young man." To which good advice, we add, learn how to take care of them first. Not every man who begins by buying four swarms of bees ends by being a successful bee-keeper. Every beginner in apiculture, should have a good bee book, and subscribe for a good bee journal if he desires to succeed.

TO COLOR SHEEPSKINS WITH THE WOOL ON.—Unslacked lime and litharge, equal parts, mixed to a thin paste with water, will color buff—several coats will make it a dark brown; by adding a little ammonia and nitrate of silver a fine black is produced. Terra japonica will impart a "tan color" to wool, and the red shade is deepened by sponging with a solution of lime and water, using a strong solution of alum water to "set" the colors; 1 part crystallized nitrate of silver, 8 parts carbonate of ammonia, and 14 parts of water dyes brown; every additional coat darkens the color until a black is obtained.

SOAP.—A young lady who makes all the family soap gives the following recipe for a good cheap article: "Add to ten quarts of water six pounds of quicklime (shell lime is the best) and six pounds of common washing soda. Put all together and boil for half an hour and let it stand all night to clear. Draw off the lye, and add to it one pound of common resin, and seven pounds of fat (any fat will do). Boil this for half an hour, then let it stand till cool, and cut into bars."

GELATINE PUDDING.—½ box of gelatine dissolved in ½ pint of cold water. Beat the yolks of 4 eggs, add 3 tablespoons of sugar, and turn into the gelatine and water. Have ready a quart of boiling milk set in a quart of boiling water. Pour the mixture into the milk, and stir it until it boils. Remove it from the fire, and stir in the whites of the 4 eggs beaten to a froth. Flavor with lemon, vanilla, or almond. Mould it, and use it the next day.

CASTOR OIL FOR CORNS.—The Southern Medical Record says that castor oil applied to the corn, after paring closely, each night before going to bed softens the corn, and it becomes as the other flesh.

SUNDERLAND PUDDING.—Beat 6 eggs to a froth. Mix 1 cup of flour, with 1 quart of milk, 1 teaspoon of salt, and stir the eggs into it. Bake in cups about twenty minutes. Serve with sauce.

COLD SAUCE.—4 tablespoons of sugar, two of butter. When these have been rubbed until very white and smooth, add the beaten white of an egg. Flavor it and mould it into some pretty shape.

A bit of red pepper, size of your finger end, dropped into boiling meat or vegetables will kill all unpleasant odor. Remember this with boiled cabbage.

TO START A BALKY HORSE.—A balky horse, in a double team, may always be started by tying his tail to the whiffletree and starting the other horse.

To check diarrhoea it is asserted that nutmeg tea is excellent.

Feeding dairy cows plentifully now, will pay both this season and next.

STRAW-BURNING STEAM ENGINE.

A trial has recently been made at Vienna of a new patent straw-burning steam engine, the results of which were so interesting and successful as to deserve record. The engine, of ten horse power, was kept running for 46 minutes with its full efficiency of 355 pounds of mixed wheat and rye straw. Four pounds of straw were found to be equivalent to a little more than one pound of good coal. A threshing machine driven by the engine threshed 100 sheaves of wheat with the consumption of nine sheaves of the straw in the fire-box. So that the power required to thresh a wheat crop can be obtained without the expensive haulage of coal or wood, by the mere combustion of less than ten per cent. of the straw made by the operation. How important an invention this is likely to prove to western farmers, many of whom are at a great distance from coal and wood, may easily be imagined.

TOMATO HONEY.—To each pound of tomatoes allow the grated peel of a lemon and six fresh peach leaves. Boil them slowly till they are all to pieces, then squeeze them through a bag. To each pound of liquid allow a pound of sugar and the juice of one lemon. Boil them together half an hour, or till they become a thick jelly. Then put them into glasses, and lay double tissue paper over the top. It will be scarcely distinguished from real honey.—Bos. on Journal of Chemistry.

Articles and Covenant of Baptist Churches. \$1 00 per 100 copies. July 2.

BRITISH AMERICAN Book and Tract Depository, 133 GRANVILLE STREET.

NOW OPENING: Ten Cases S. S. Books. The Publications of—The Religious Tract Society, London. The Christian Knowledge Society, London. The Book Society, London. Messrs. Campbell & Son, Toronto. "T. Nelson & Sons, Edinburgh. "Johnson & Huxter, " "Gall & Inglis, " "Oliphant & Son, " Also constantly on hand, Illustrated S. S. Papers, Papers and Books for S. S. Teachers, S. S. Cards, Illustrated. Send for Catalogue. A. McBEAN, Secretary.

WINDSOR & ANNAPOLIS RAILWAY. CONDENSED TIME TABLE. COMMENCING OCTOBER, 1873. HALIFAX TO ST. JOHN.

Table with columns: Miles, STATIONS, Exp. Pass. Pass. 1st and Class, Frgt. Frgt. Class. Rows include Halifax, Bedford, Wind Junction, Mount Uniacke, Newport, Windsor, Hantsport, Wolfville, Kentville, Aylesford, Midleton, Bridgetown, Annapolis.

ST. JOHN TO HALIFAX. Miles, STATIONS, Pass. Pass. Exp. and and 1st and 1st Class. Rows include St. John by Steamer, Annapolis, Bridgetown, Middleton, Aylesford, Kentville, Wolfville, Hantsport, Newport, Mount Uniacke, Windsor June, Bedford, Halifax—Arrive.

N. B.—The Express trains now run daily. Steamer "Scud" or "Empress" leaves St. John on Monday, Wednesday, Friday and Saturday, at 8 a. m., for Annapolis, and returns same day on arrival of 8 a. m. Express Train from Halifax. International Steamers leave St. John on Monday and Thursday at 8 a. m., for Eastport, Portland, and Boston. European and North American Railway Trains leave St. John at 8.30 a. m. and 9 p. m., for Woodstock, Fredericton, St. Stephens, Bangor, Portland, Boston, and all parts of the United States and Canada. Through Tickets at reduced fares by above routes to all parts of the United States and Canada may be obtained at the Ticket Office, 126 Hollis Street, Halifax, at Richmond, and the principal Stations on the Railway. P. INNES, Manager. Kentville, 6th Oct., 1873. Oct. 22.

HALIFAX, N.S., DECEMBER 17, 1873.

MESSENGER ALMANACK. DECEMBER, 1873.

Table with columns: Day, SUN. MOON, High Tide. Rows include M., Tu., We., Th., Fr., Sa., Su. for the month of December.

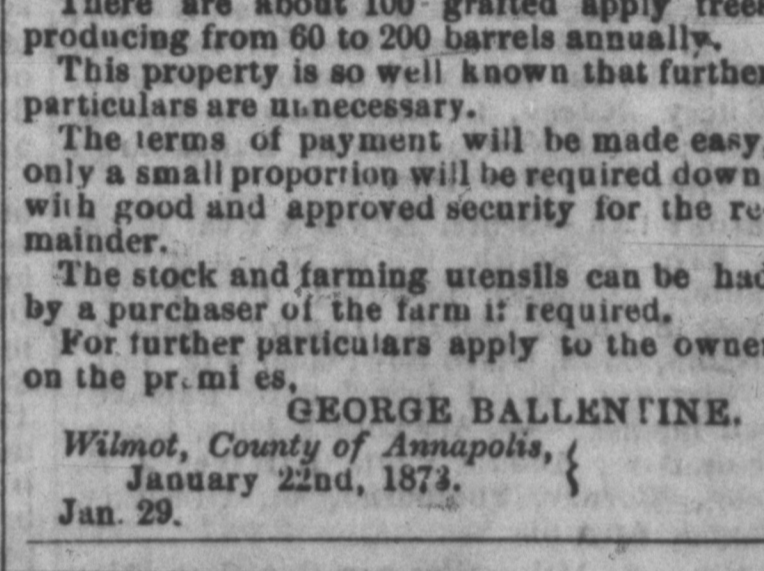
THE TIDES.—The column of the Moon's Position gives the time of high water at Parsonboro', Cornwallis, Horton, Hantsport, Windsor, Newport, and Truro. High water at Pictou and Cape Tormentine, 2 hours and 11 minutes later than at Halifax. At Annapolis, St. John, N. B., and Portland Maine, 3 hours and 25 minutes later, and at St. John's, Newfoundland 30 minutes earlier, than at Halifax. At Charlottetown, 2 hours 56 minutes later. At Westport, 2 hours 54 minutes later. At Yarmouth, 2 hours 20 minutes later.

FOR THE LENGTH OF THE DAY.—Add 12 hours to the time of the sun's setting, and from the sum subtract the time of rising.

FOR THE LENGTH OF THE NIGHT.—Subtract the time of the sun's setting from 12 hours, and to the remainder add the time of rising.

NOTICE.

THE Subscriber offers for Sale his well known Farm, Situate in Wilmot, County of Annapolis, on the North back road, about one half mile east from the Wilmot Spa Springs, and about one and a half miles from the Railroad Station. Said farm contains 125 acres of very valuable land, advantageously divided into Hay, Pasture, and Woodland. The hay and tillage land are under a superior state of cultivation, the pasture is of an excellent quality, and wood lot sufficient to supply a family for generations to come. On the Farm is a comfortable House of Six and a half rooms, with other convenient out buildings all in good state of repair. An abundant supply of water is carried into the House by pipes from a never failing Spring, and also taken for the use of the barn. There are about 100 grafted apple trees producing from 60 to 200 barrels annually. This property is so well known that further particulars are unnecessary. The terms of payment will be made easy, only a small proportion will be required down, with good and approved security for the remainder. The stock and farming utensils can be had by a purchaser of the farm if required. For further particulars apply to the owner on the premises. GEORGE BALLENTINE, Wilmot, County of Annapolis, January 2nd, 1873. Jan. 29.



Superior Pianos, IN VARIOUS STYLES. UPRIGHT, OBLIQUE, SQUARE, &c. With all the latest improvements, manufactured by the subscribers, and especially adapted to this climate. An assortment of THE "SILVER TONGUE" A very fine toned CABINET ORGAN, by Carhart and Needham, N. Y. The above are offered to a discriminating public at moderate prices, WM. FRASER & SONS, June 1. 70 & 72 Barrington St.

H. G. LAURILLIARD, TAILOR, GENTLEMEN'S DRESS MATERIALS, AND Furnishing Goods constantly on hand Agent for the NEW YORK FASHION PLATES. 331 HOLLIS STREET, HALIFAX, N. S. May 17.

To Parents and Sabbath School Teachers. JUST PUBLISHED. SECOND EDITION—REVISED. A SCRIPTURE CATECHISM, for the Family, the Bible Class, and the Sabbath School, BY S. SELDEN. Price 6 cents or \$6.00 per 100.

Has stood the test of Time.

ARCHIBALD'S VEGETABLE PAIN BALSAM, the great internal and external remedy for all kinds of pain has stood the test of time; it has been before the public for many years and its reputation like its sale is greater than ever. Archibald's Tonic Bitters, the ne plus ultra of remedies for Dyspepsia &c. Send for testimonials of some of the most wonderful cures on record. Address M. ARCHIBALD, March 12. Box 137 Post Office, Truro.

MUSICAL. C. E. & G. O. GATES

Manufacturer of ORGANS AND PIANOS. GENERAL Agents for the Smith American Organ Company, and Henry F. Miller's Pianos. Second-hand Pianos and Organs taken in exchange for new. A practical man will travel over the Province twice a year, for the purpose of tuning, repairing, and taking orders. Instruments warranted for 5 years. Melvern Square, Wilmot, N. S. June 18.

DR. R. R. CUNNINGHAM, DENTIST.

40 GERMAIN ST., ST. JOHN, N. B. Dentistry in all its branches. Artificial teeth mounted on fine Gold Plates. I keep a large assortment of teeth from the best manufacturers. In every variety of style. Volcanic Plates made from the best English and American rubbers. My Laboratory is constant and supplied with the most expert workmen that can be procured, and with all modern contrivances in the way of tools, machinery, &c. None but perfect work allowed to leave the establishment. Persons from Nova Scotia visiting St. John, can have artificial denture supplied with less detention than at any other office. Teeth filled with Pure Gold; also, with all the best composition fillings known.

DR. R. R. CUNNINGHAM, 40 GERMAIN ST., St. John, N. B.

AUTUMN STOCK. 150 GRANVILLE STREET.

WE are now opening per "Sidonian," "Isralia," and "Austrian," 84 PACKAGES OF DRY GOODS. Balance expected daily, per "Severn," "Nestorian," "Delta" and "Rosemont."

MILLINERY.

Stock of Millinery now Complete. Wholesale and Retail. SMITH BROS. Sept. 17.

LAND AND TANNERY For Sale.

THE subscriber offers at private sale the property on which he now lives, situate in Falmouth, on the main Post Road, leading from Windsor to Hantsport, Wolfville, etc., consisting of ten Acres Prime LAND, with DWELLING HOUSE, Well, Stable, Orchard, Tannery, and outbuildings connected, with a never failing Brook running through it. As he is unexpectedly called to change his business, will sell all the fittings connected with the annery, which is 35 x 40, two stories high, such as Bark Mill, Tables, Benches, Troughs, besides other articles on the place too numerous to mention, so that the purchaser may go to work without any loss of time. ALSO—A LOT HIDES. A part of the purchase money may remain on mortgage. Feb. 19 P. W. PAYZANT.

SKIN DISEASES.

I will send (free) receipt for my VEGETABLE BALM, removing Pimples, Black Heads, Blisters, Fykes, Moth and Tan, leaving the skin clear and with a healthy glow. Also, sure process for the growth of Hair on bald heads or smooth faces. H. PRATT, Chemist, 42 Pine St., New York, P. O. Box 5, 123. (Send stamp.) Oct 1.

Hats and Caps.

WE have now on hand a full Stock of all kinds, including the NEWEST STYLE, to which we invite the attention of our friends, both at Wholesale and Retail. Our prices are as low as any in the city. Silk Hats made to order by Confermate Measure, without extra charge. EVERETT BROTHERS, 100 Granville St., May 3.

THE CHRISTIAN MESSENGER

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