

SCIENCE.

THE STEAMER PILGRIM is now complete, and was lately thrown open to public inspection. On the 18th of June a trial trip took place in the harbour of New York, on which occasion the members of the press, the Mayors of New York and Brooklyn, and a large company of distinguished guests were invited. The Pilgrim is a marvel of perfection and elegance in every department—a veritable floating palace. The latest achievements of science and art, so far as they are to-day practically available for improved navigation, are realized in the Pilgrim. The iron hull is made double, and has over one hundred water tight compartments. It is claimed that the vessel will not sink. The boilers are inclosed in iron apartments, and it is believed that fire cannot spread from the furnace to other parts of the ship. The machinery is of the latest and most reliable character. Steam steering gear is employed. The illumination by electricity is of the most brilliant description, and is furnished by Edison machines.

The principal dimensions of the Pilgrim are as follows: Length on deck, 390 feet; on the 11 foot load line, 375 feet; beam of the hull proper 50 feet; beam over guards, 87.6 feet; depth of hold proper, 18.6 feet; depth from floor to top of dome, 60 feet; tonnage about 3,500 registered tons.

She has twelve boilers made of steel, having a tensile strength of 62,000 pounds to the square inch. These boilers are in "nests" of three each, making four separate structures, developing in all 5,500 horse power.

She is a ship within a ship, and has 103 water tight compartments. It would be impossible to sink her by staving in her bottom. Twenty-five feet from her stem is the water tight collision bulkhead, fifty feet abaft the stem is another bulkhead, and 30 feet forward of her stern is another bulkhead, all of iron.

The grand saloon is the largest and finest steamboat saloon in the world, being 320 feet in length. Its dome roof is 20.6 feet from the saloon deck, and is 280 feet long. The sides of the saloon are 9.3 feet high, and of the gallery 6.7 feet high. This grand apartment will hold, with its gallery balcony, her allowance of 1,400 passengers, without crowding, a gathering which would require over 23 ordinary railway cars to seat. The staterooms are models of comfort, with spring beds, the best of hair mattresses, feather pillows, and spotless bed linen, lace and damask curtains, etc. Her captain is Benjamin M. Simmons.

A plan for diminishing the risk of boiler explosions has been suggested by M. Treve in the *Moniteur Industriel*. These explosions, the author points out, are due to leaving the boiler full of water, which by boiling parts with its air. It has previously been shown that water in this condition is in the spheroidal state, and liable to explosion. M. Treve advises the injection of air before reheating the water, and the use of a thermometer, which would indicate whether the vapor pressure is below that to be expected from the temperature of the water.

The peculiar affinity which seems to exist between petroleum oil and electricity has led to some very serious disasters of late. The subject is not very well understood at present, if at all, and opens a large field for investigation. The *New York Sun* observes that the inventor who succeeds in devising a method which shall afford oil-tanks absolute protection against lightning ought to be able to make a million of dollars by the invention.

FARM AND GARDEN.

LEGS AND FEET OF HORSES.—The feet and legs of horses require particular attention. It is an old saying with horsemen, "Keep the feet and legs in order and the body will take care of itself." The legs are the first to fail. The horse, when brought in from severe, protracted exertions, should be rubbed down dry. His legs, from the knees and hocks down, should be well hand rubbed so that the friction

will create insensible perspiration; that will tend to prevent swelled legs, stiff joints, and sprung knees. When the legs are fevered from over-driving, they should be bandaged with wet cloths to take away the heat and prevent wind-galls that prove eyesores; and which, without diminishing his capacity for labor, materially affect the market value of the horse.—*Lice Stock Journal*.

If your horses are thin skinned and very much annoyed by flies when working or driving, steep up a handful of the wild wormwood or bitter weed, wet a cloth in it and just moisten the hair, especially on ears, neck and legs, before taking them out of the stable: or a few walnut leaves will have the same effect. It will make the animal more comfortable and much more pleasant to drive.

Every dairyman should raise at least one-eighth of an acre of corn fodder for each cow, to help the pasture through the dry season.

BARN PAINT.—The Iowa Agricultural College folks recommend the following as an excellent paint for out-of-door work. To three parts crude petroleum and one part linseed oil add sufficient mineral paint to give the desired body, and apply with a brush. For better buildings white lead may be added in the proportion of one pound of lead to five of mineral paint. Crude petroleum costs only from six to eight cents per gallon by the barrel, and can be easily obtained through any druggist or dealer in oil in any town or village. A barrel would be handy to have in the house of any farmer, who could then do a world of painting at odd spells. Not only ought barns, fences, hog-pens, and stables to be painted, but the roofs and floors of these buildings as well.

LIQUID MANURE—A NEW METHOD.—The Chicago *InterOcean* says:—"Plant cucumber seed in a shady place, as between grapevines, currant bushes or under low trees. If started on soils in the hot-bed they will come on sooner. Set tin cans, with a tiny hole in the bottom, by the side of the hill, and fill daily with liquid manure diluted with three times its bulk of water, and you will raise cucumbers that will astonish yourself and excite the admiration of your neighbors. If you desire to have fine strawberries for exhibition try the same plan. Melons, or almost any vegetable treated in this manner, will give pleasing results. Your flowers will repay you for time and trouble expended if you give them a dose of the liquid manure occasionally. A handy way to secure liquid manure for a small garden is to put up a barrel filled with manure and pour in a bucket of water once in a while, letting it soak through the manure. If the contents of the barrel are rich, strong manures, it must be diluted with three or four times its bulk of water to produce the best results. Try the plan and you will never give it up if you faithfully follow it the first season, for your plants treated in this manner will almost double their yield, and it is not much trouble to fill the cans every evening or morning."

HOUSEHOLD.

STRAWBERRIES AND RICE PYRAMID.—Wash a tea-cupful of rice with cold water four times, pouring it over the rice in a colander. Then put it into enough boiling water salted to cook it for fifteen minutes. Place it on the back of the range and let it simmer slowly for half an hour. Put a layer of it half an inch thick in a glass dish, then a layer of strawberries well sweetened and another layer of rice and another of berries, making each layer smaller, so that it forms a pyramid. On the top place a cluster of strawberries and leaves and serve with whipped cream and sugar.

STRAWBERRY SHORTCAKE.—One quart of sour cream, half teaspoonful of soda, flour to make a soft dough; roll it about an inch thick; bake on pie-pans in a quick oven; when done, split them open; butter each piece and cover with berries and sugar; they may be piled one on top of the other or not, just as you like. Serve with cream.

GERMAN TOAST.—Cut into slices a loaf of baker's bread, soak them ten or fifteen minutes in a pint of milk, two eggs and a little salt. Fry in equal parts of lard and butter till they are a light brown on both sides. This dish is quickly prepared for a desert, and may be eaten with a pudding sauce.

STRAWBERRY JELLY.—Mash the berries and extract the juice; strain through a flannel jelly-bag; to each pint of juice take one pound of crushed sugar; put all in the kettle together and boil for fifteen or twenty minutes; put it in the glasses before it is cold, and let it set until the next day; then cover with branded paper and tie closely.

VARIETIES.

Winged Words.

If words Were birds, And swiftly flew From tips To lips Owned, dear, by you; Would they, Today, Be hawks and crows? Or blue, And true, And sweet? Who knows? Let's play To-day We choose the best; Birds blue And true, With dove-like breast! 'T is queer, My dear, We never knew That words, Like birds, Had wings and flew! Jessie Mc Gregor, in "Jack-in-the-Pulpit," St. Nicholas for June.

I know not the way I am going, But well do I know my guide! With a child-like trust I give my hand, To the mighty Friend at my side. The only thing that I say to him As he takes it, is 'Hold it fast, Suffer me not to lose my way, And bring me home at last.'

The bad and vicious may be boisterously gay and vulgarly humorous, but they are seldom or never truly cheerful.

Each of us ought to strive for excellence in one thing; but we also need a little knowledge in many others.

Labor, dream, endure, aspire, Give your lives as Heaven sees best; Struggle, conquer, work, and rest. —Mulock.

An old gentleman who had provoked the hostility of a fashionable lady whom he had known in boyhood, was asked by his wife what he had done to incur the lady's displeasure. 'Nothing at all,' replied the innocent old man; 'on the contrary, I was very cordial to her, and spoke of the time when I used to carry her to school nearly half-a-century ago!' His wife threw up her hands in amazement, and murmured, 'How stupid men are!'

Why are seven days like a spell of sickness? Because they make one week, (weak.)

A pair of slippers—Orange peel and banana skins.

It takes some headwork to manage a "scull."

Put not your trust in money, but put your money in trust.

When a strong brain is weighed with a true heart, it seems to me like balancing a bubble against a wedge of gold.

I find the great thing in this world is not so much where we stand as in what direction we are moving.

There are three wicks to the lamp of a man's life: brain, blood, and breath. Press the brain a little, its light goes out, followed by both the others. Stop the heart a minute and out go all three of the wicks. Choke the air out of the lungs, and presently the fluid ceases to supply the other centres of flame, and all is soon stagnation, cold and darkness.—O. W. Holmes.

Did you ever think what you would do if you had Vanderbilt's income? —*Norristown Register*. Well, no; but we have often wondered what Vanderbilt would do if he had our income.—*Philadelphia News*.

AYER'S Sarsaparilla

cures Rheumatism, Neuralgia, Rheumatic Gout, General Debility, Catarrh, and all disorders caused by a thin and impoverished, or corrupted, condition of the blood; expelling the blood-poisons from the system, enriching and renewing the blood, and restoring its vitalizing power.

Inflammatory Rheumatism Cured. "AYER'S SARSAPARILLA has cured me of the Inflammatory Rheumatism, with which I have suffered for many years."

"Eight years ago I had an attack of Rheumatism so severe that I could not move from the bed, or dress, without help. I tried several remedies without much if any relief, until I took AYER'S SARSAPARILLA, by the use of two bottles of which I was completely cured. I have not been troubled with the Rheumatism since. Have sold large quantities of your SARSAPARILLA, and it still retains its wonderful popularity. The many notable cures it has effected in this vicinity convince me that it is the best blood medicine ever offered to the public."

"Last March I was so weak from general debility that I could not walk without help. Following the advice of a friend, I commenced taking AYER'S SARSAPARILLA, and before I had used three bottles I felt as well as I ever did in my life. I have been at work now for two months, and think your SARSAPARILLA the greatest blood medicine in the world."

AYER'S SARSAPARILLA cures Scrofula and all Scrofulous Complaints, Erysipelas, Eczema, Ringworm, Blotches, Sores, Bolls, Tumors, and Eruptions of the Skin. It clears the blood of all impurities, aids digestion, stimulates the action of the bowels, and thus restores vitality and strengthens the whole system.

Prepared by Dr. J. C. Ayer & Co., Lowell, Mass. Sold by all Druggists; price \$1.16 bottles, \$4. Feb. 7. ly.

HONOR TO WHOM HONOR IS DUE.

HOLMAN PAD COMPANY, } Halifax, N. S. WALLACE BRIDGE, Cumberland Co., 17th February, 1882.

GENTLEMEN,—I have much pleasure in informing you of the benefit I have received from wearing one of your Pads. I was induced by a friend, last December, to give one a trial. Since then my health has improved so much that I have gained twenty-two pounds in weight. Under these circumstances, I feel that I am obligated, not only to you but to every person suffering as I did before I commenced to wear your Pad, to endeavor, as far as I possibly can, to help to place such a remedy within the reach of every sufferer. Yours truly, LAWRENCE MCKIN, Postmaster.

Advice free. Pads of all descriptions sent free by mail on receipt of price.

HERRING COVE, April 8, 1882. HOLMAN PAD COMPANY, 119 Hollis St., Halifax.

DEAR SIRS,—My wife has been ill for about three years, and attended by the best physicians without receiving the least benefit therefrom; but since wearing your Pads, she is QUITE WELL. With deepest gratitude and with the view of benefiting others, I remain, Yours obediently, JOHN KEATING, April 19.

HALIFAX STEAM DYE WORKS,

566 Upper Water Street, (Opposite H. M. Naval Yard) Established 1871. JOHN HUBELEY, Proprietor.

COATS, Pants, Vests, Shawls, Sacques, Dresses, Clouds, Curtains, Table Cloths, Cashmere Shawls, &c., Cleaned and Dyed to look like new.

Silk Ribbons, Scarves, Crapes Shawls, Satan Neckties, &c., Dyed all Colours. FEATHERS DYED AND CURLED. Gents Garments cleaned and pressed. Goods damaged by fire or water, faded or soiled, Coats Dyed to look like new.

Mourning Dyed at the shortest notice. Gents Garments and Ladies Dresses, all wool, Dyed and Pressed whole, without ripping.

AGENT—MISS CAROLINE LAWSON, 123 Barrington Street, opposite St. Paul's Church.

JOHN HUBELEY, 566 Upper Water Street, Cheapest Place in the city for Dyeing. Oct. 12.

TO DR. BENNET AND LEWIS,

119 HOLLIS ST., HALIFAX.

DEAR SIRS,—I desire to express my feelings of profound gratitude to you who have helped me so much by the use and application of your wonderful medicine known as your Absorptive Pads and Plasters. I was sick about two years, and spent a large sum of money with Physicians but received very little benefit until I tried your Absorptive treatment. When I commenced using it this summer I could scarcely walk across the floor, and now I can walk a mile at a time, and attend to household duties much better than I could before and feel only too glad to recommend this truly great treatment to any person or persons who may be afflicted as was. You are at liberty to make any disposition of this note you may deem proper.

MRS. R. HIBBARD, Hebron, Yarmouth. This treatment can be applied effectively without interview where full particulars of case are sent by letter. Nov. 21.

30 YEARS!

Important trial of THIRTY YEARS decided, and a jury of half a million people have given their verdict that

MINARD'S LINIMENT!

Is the best inflammation allayer and Pain destroyer in the world. 500 Medical men endorse and use it in their practice, and believe it is well worthy the name.

KING OF PAIN!

\$100 will be paid for a case it will not cure or help of the following Diseases: Diphtheria and Rheumatism, Scalds, Chilblains, Galls, Boils, Sprains, Lumbago, Bronchitis, Burns, Toothache, Broken Breasts, Sore Nipples, Felons, Stings, Frost Bites, Bruises, old Sores, Wounds, Barache, Pain in the Side or Back, Contraction of the Muscles.

There is nothing like it when taken internally for Cramps, Colic, Croup, Colds, Coughs, Pleurisy, Hoarseness, and Sore Throat. It is perfectly harmless, and can be given according to directions without any injury whatever.

A Positive Cure for Corns and Warts, And will produce a fine growth of Hair on bald heads in cases where the Hair has fallen from disease, as thousands of testimonials will prove. A trial will convince the most sceptical that the above is true. Send us for testimonials of distinguished men who have used.

MINARD'S LINIMENT And now have a beautiful crop of Hair; and hundreds who have used it are willing to swear that by the use of Minard's Liniment they have obtained a new growth of Hair.

W. J. NELSON & Co., Proprietors, Bridgewater, N. S. Wholesale agents—Forsyth, Sutcliffe & Co., and Brown & Webb, Halifax. Feb. 14.

Paper Hangings

AT W.M. GOSSIP'S, UNITED SERVICE Book & Stationery Warehouse,

NO. 103 GRANVILLE ST., HALIFAX, N. S.

ROOM PAPER

This season are very attractive. They are in time to escape the additional protective duty imposed by the Dominion Government, and will be sold at correspondingly low rates.

SOLD WHOLESALE

by the bale of four or five hundred rolls, about twenty patterns in a bale, from 6 cts. a roll and upward. Send to

William Gossip,

No. 103 Granville Street, Also just received, a large assortment of Artists' Materials, Oil and Water Colours, &c. Drawing Paper, Canvas, Brushes, &c., &c. March 22.

1872 MUSIC CARD. 1883

The Gates' Organ and Piano Company, (Limited.) Capital \$60,000—Encourage Home Enterprise.

Prof. C. E. Gates, President; W. J. Gates, Manager; G. O. Gates, Superintendent. Factory TRURO, Warerooms HALIFAX & TRURO, N. S.

FOR SALE.—Pianos, Organs, Music Stools, Sheet Music, Music Books, and all kinds of Musical Instruments. Pianos and Organs fully warranted. "SUDDS" Famed 100 page Organ Instructor only \$2.50. New 300 page Piano Instructor only \$3.50 and \$2.00.

The Musical Journal published monthly by the Company, (120 pages New Music). Price only 60 cents per annum. Jan. 31.

EDITORIAL NOTICE

During Convention and Associations we want to introduce BUDS & BLOSSOMS, so as to end the seventh year with an enlarged list.

"Buds and Blossoms and Family Greetings" as a magazine for church and home must win its way both on account of quality and price.

See what others say! BUDS AND BLOSSOMS is the title of a neat and attractive illustrated religious monthly magazine, published in Halifax, N. S., and edited by Rev. J. F. Avery, pastor of the Third Baptist Church of that city. It is now in its seventh volume, and does credit to both publisher and editor. It is such a periodical as will prove a blessing in any family where it is taken and read.—N. Y. "Watch Tower."

"J. F. AVERY, editor of BUDS & BLOSSOMS, sent us a copy of his magazine. We are very much pleased with it. It is a nearer approach to the English magazines of the same class than anything published here. Its ILLUSTRATIONS are good and its reading matter such as must do good. We wish it success."—*Canadian Baptist*.

Fully illustrated, 38 pages, price 75 cents a year, specimen for a 3 ct. stamp. May 30.

\$72 A WEEK. \$12 a day at home easily made. Costly outfit free. Address TRUE & Co., Augusta, Maine "Sept. 29, 1880.

"CUSTOM TAILORING."

H. G. Laurilliard, 119 HOLLIS STREET, HALIFAX, N. S. Agency for New York Fashions

CHRISTIAN MESSENGER

Printing Office, 69 & 71 GRANVILLE ST., HALIFAX, N. S.

All kinds of

JOB PRINTING

Executed with neatness and despatch BOOKS,

PAMPHLETS, CIRCULARS

BILL-HEADS, POSTERS

Business Cards

Of all kinds WEDDING CARDS, LADIES VISITING CARDS, TICKETS & LABELS

At reasonable prices.

Sunday School Headquarters.

BRITISH AMERICAN BOOK AND TRACT SOCIETY, Depository, 117 Granville St., Halifax, Secretary and Superintendent of Colportage, A. N. ARCHIBALD.

Ample supply of the best and most popular Sunday School Books published. HALF PRICE—Books of Religious Tract Society, London; STRONG'S BIBLE, SUPERIOR TYPE. Sold both through the Depository and the Society's Colporteurs in lots to suit the Schools.

50 Volumes for from \$6.00 to \$8.00. The Committee have been selecting from the leading Publishing Houses of Great Britain and America for 15 years the choicest S. S. publications, and have made a specialty of Libraries, Periodicals, Lesson Helps, Cards, etc.

PELOUBET'S SELECT NOTES ON INTERNATIONAL S. S. LESSONS, postpaid \$1.25. HACKETT'S COMMENTARY ON ACTS, edited by Dr. Hovey, of Newton, postpaid, \$2.

People's Home Mission Agency.

The Society has been in operation 15 years. Colporteurs to the number of 102 have been employed, who have distributed Bibles and good books worth \$141,236 by sale, and books and tracts valued at \$10,081 by grant. Total grants by the Society, including those from Depot, more than \$16,000 worth. Time served by the Colporteurs equals that of one man for 142 years. Labrador, Newfoundland, Cape Breton, P. E. Island, Nova Scotia, New Brunswick, and a portion of Quebec have been explored. There have been found 1,525 families without God's Word; 2,882 families with no other religious book, and 2,545 families who habitually neglect attending any place of worship. The 26 Colporteurs employed in 1882 performed labor equal to that of one man for 124 years; found 205 Protestant families without Bibles, 279 with no other religious books, and 378 families who never attend the House of God. They sold books worth \$13,332, and made free grants to the value of \$915, as they made 31,870 family visits, and held 626 religious meetings.

The books circulated are sound and good, teaching the RITUAL of man by the fall, REGENERATION by the Holy Spirit, and REDEMPTION through our Lord and Saviour Jesus Christ. They are eminently designed to spread abroad Divine truth, and they are accepted by those that in every place call upon the name of the Lord. They give no uncertain sound upon the essential doctrines of the Cross: Justification through the blood of the Redeemer, holiness through the sanctification of the Spirit, and complete redemption through God's grace alone. Books and tracts designed especially to awaken the impenitent and point to Jesus are imported in great numbers. Almost 10,000 "Come to Jesus" were distributed last year.

The prayers of all God's people are earnestly requested for the Spirit's power to accompany the reading of the books and the evangelistic efforts of the Colporteurs. A copy of the last Annual Report, giving much interesting information and copious extracts from the Colporteurs' reports, will be sent on application to the Secretary.

American Baptist Publication Society.

As advertised last year, we continue to order the publications of the above Society upon which we allow a discount of FIFTEEN per cent, excepting periodicals, from the catalogue prices. As compared with the issues of the British houses these books are expensive. Catalogues will be supplied upon application, and those ordering can decide for themselves.

The Psalmist, published in the United States for 85 cents, we continue to sell for 75 cents. From our Depot and through Colporteurs about 5,000 Psalmists have been already sold.

Donations to Dec. 31st, 1882, in aid of Colportage, \$40,127; amount paid by Society to Dec. 31st, 1882, for Colportage, \$63,250.

Patronize the Depository and thus aid Colportage, to which all accruing profits are applicable. Jan. 31. 1 y.

CARD.

BEING in possession of a valuable remedy for

Asthma, Hay Fever, Phthisis, Bronchitis

and all difficulty in breathing, I have consented after numerous solicitations to make it known. Any individual so suffering can get valuable information by addressing

REV. G. FRED. DAY, Musquodoboit Harbor, N. S. May 9. 6 m.