

The Steam Engine Superseded.

Mr. Bourne, C. E., the Principal of the new Engineering College at Muswell Hill, Scotland, and the well-known author of various practical works on the steam engine, has, says the Glasgow Mail, been engaged during the past year in perfecting a new species of heat engine, which it is expected will supersede the steam engine for nearly all the purposes for which that is at present employed. It has long been known that the steam engine is a most wasteful machine, not more than one-tenth of the theoretical efficiency of the heat expended being obtained in even the best engines, the other nine-tenths being wasted. It has also long been known that the power cannot be generated by heat unless there be two unequal temperatures, and that it is in the heat of falling from the high temperature power. The further removed these two temperatures are from one another, the larger will be the proportion of the total heat transformed into power; and it is because in the steam engine these two temperatures are not far apart that the heat is wasted to so serious an extent. The maximum temperature in a steam engine is the temperature of the steam, which may be 250 degrees or thereby; and the minimum temperature, which is that of the condenser, may be 100 degrees; so that the total fall from the highest temperature to the lowest may not be above 150 degrees. The power generated by this inconsiderable fall will not be great, any more than the power will be great which is got from a low fall of water by any hydraulic machine. But the conditions under which steam can be worked in an engine imply limited extremes of temperature, and therefore a large expenditure of fuel to generate a given amount of power. To enable higher temperature to be employed in engines for the generation of power, air has been proposed as a substitute for steam, and air engines have been contrived by Stirling, Ericsson, Joule, and others. But the difficulty of heating the air by any species of air boiler and of preserving the piston in a working condition at high temperatures has so seriously impaired the advantages of these contrivances that they have never come into extended use. Under Mr. Bourne's arrangement these objections are avoided. There is no air boiler, but the fuel is injected into a small chamber, so that the heat is generated internally instead of being transmitted through heating surfaces. The maximum temperature employed is the temperature of flame. But the engine is so contrived that the piston is not subjected to any higher temperature than is usual in steam engines. An engine constructed upon this principle may be made so compact and so light as to be applicable to many purposes for which steam engines cannot be used, such as flying, tramway locomotion, propulsion of tricycles, while the economy of fuel will be such, by reason of the high temperature employed, that a very inexpensive performance will be obtained. We are unable at present to say anything in regard to the details of this invention, which, we believe, will not be made public for some time.

Gambling at London Clubs.

After all, the operations of the baccarat clubs are on almost comfortable scale compared with what then be it remembered, all transactions were in ready money, except in the case of customers of undoubted wealth. In 1824, there were two "clubs" in London where French-hazard was played with a nightly bank of £10,000, and with stakes from 10s. to £200. There were three gambling-houses where the banks were £2,000, and the highest stakes £100. There were five each with a bank of £1000. Altogether, there were twenty-five houses for French-hazard and rough-and-ready, half of which were in Pall-mall and Bennett-street. This sort of thing went on for more than twenty years, and then for a time play went out of fashion.

In full session a million of money was often "turned" in one night at Crookford's. The net profits of the season were £150,000, and yet the weekly expenses averaged £1,000. The fitting-up of the houses cost nearly £50,000. Crookford's was ostensibly organized as a club, but any one who had a fortune to lose, could easily obtain admission. The Duke of Wellington was an original member, but was never known to enter the baccarat-room-which, of course, was the aim and end of the establishment. Ude presided over the kitchen for several years. The waiters at Crookford's always received a Christmas-box of £1,000, which was divided amongst them, and £500 was given to the steward.

For ten years before Crookford's was started there was very high play at Walter's (the principal habitues of which were hopelessly ruined at Brooker's, and also at White's, where the late Lord Granville (le Wellington des joueurs) was the great player). He is said to have been nearly a quarter of a million to the bad at the end of his career, although at one time he had won £110,000. Lord Granville once lost £23,000 at hazard at a single sitting of seven hours, and £10,000 at one night's whist; and Mr. Hayward relates how he once lost a rubber and £3,700 by forgetting that the seven of hearts was up.—Truth.

Special Notices.

A GREAT RUSH for Prints and Grey Cottons at J. B. MACDONALD'S. Pronounced the cheapest in town. [m11.] SKATERS, Snowshoers, and Tobogganers take notice.—Mr. H. H. Distin, our operator, is making special efforts to take parties in costume in the most natural positions. For instance in the act of skating, coasting and on the snowshoe tramp. G. H. COOK & Co., 616, the Apothecaries Hall. [m10 6m.] MENS' and boys' Felt Hats (hard and soft) in great variety and very cheap at J. B. MACDONALD'S. [m11.] We are selling off our balance of Crockerly cheaper than ever to make room for new goods.—W. P. COLWILL. [m10 wkly.] Two hundred ends of White Cotton six to twelve yards each, splendid goods at a cheap price at PERKINS & STERN'S. [m11 3i cod.] Five pound tins Tea just the thing at BEER & GOFF. [m11.] For great bargains in Crockerly go to W. P. COLWILL'S. [m10 wkly.] Mr. J. F. POWERS has commenced work in his new Barber Shop in McKinnon's building, Grafton street, adjoining J. D. McLean's store, where he is prepared to wait upon his old patrons and others who may favor him with a call. [m11.] A Lot of Ladies' Dress Goods (light colors) half price at J. B. MACDONALD'S. [m11.] NEW HATS just opened at L. E. PROWSE'S. [m11.] Blue and green Eye-glasses, just the thing for weak eyes, at K. K. BRACE'S. [m11.] HOOKING CANVAS all widths at J. B. MACDONALD'S. [m11.] PICKLES, by the quart, and pickled cabbage, at the Family Grocery. [m10 wkly.] EVERY part of a gun or a sewing machine made at Brown's shop, on corner of Prince and Grafton Street, Ch'town. [Jan 26 wkly.] Five pound tins Tea, warranted good or money refunded, at W. P. COLWILL'S. [m10 wkly.] A PIECE of fine machinery that is composed of steel, iron, brass, copper, gold or silver that Brown cannot mend or make new, you may just as well throw it away. Shop on corner of Prince and Grafton Streets, Charlottetown. [Jan 29 lotto town.] COLWILL is selling off Crockerly very cheap to make room for new goods. [m10 wkly.] SELLING OFF BOOTS AND SHOES.—A discount of 10 per cent. on the present low prices will be given at J. B. Macdonald's Boot Store. Go there for a bargain. [Feb 9 wkly her pres] Choice Winter Apples at BEER & GOFF'S. You can get steam gages and Fairbanks scales repaired at Brown's; and warranted to stand the test or no pay. Shop on corner of Prince and Grafton Streets, Charlottetown. [Feb 16] Five gallon tins Best American Oil cheap at BEER & GOFF'S. How to save twenty-five dollars.—Carry your old sewing machine to Brown's and have it made as good as new, instead of changing it for a new one. Shop on corner of Prince and Grafton Streets, Ch'town. [Jan 29]

FOR SALE AT A BARGAIN.

THE Shop and Premises immediately opposite the Roman Catholic Cathedral, Great George Street. Apply to A. McNEILL, Auctioneer. Charlottetown Feb. 22, 1884.

SHIP AND HOUSE BUILDERS,

Will find every requisite for the trade at

DUCHEMIN'S STEAM FACTORY, Beer's Wharf.

Always on hand, a complete stock of Ship's Blocks, Deadeyes, Steering Wheels,

Mouldings, in great variety, Cornice, Base Panel, Door and Window Finish, Spouting, Consoles and Handrail, Newel Posts, Balusters and every description of Turnings. Free, Circular and Jig Sawing, Planing and Moulding turned out neatly and with dispatch. Satisfaction guaranteed. Don't forget the place, Beer's Wharf near McMillan's Coal Depot.

Albert Duchemin. Ch'town, Jan. 2, 1884.—w kly 6i.

Manilla Marline.

One ton Manilla Marline, FOR SALE BY HORACE HASZARD. Ch'town, Feb 23, 1884.—2w cod

R N 66.

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MAKE NEW RICH BLOOD, And will completely change the blood in the entire system in three months. Any person who will take 1 Pill each night from 1 to 12 weeks, may be restored to sound health, if such a thing be possible. For curing Female Complaints these Pills have no equal. Physicians use them in their practice. Sold everywhere, or sent by mail for eight letter-stamps. Send for circular. L. S. JOHNSON & CO., BOSTON, MASS.

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JOHNSON'S ANODYNE LINIMENT (For Internal and External Use). Cures Croup, Asthma, Bronchitis, Whooping Cough, Hoarseness, Sore Throat, Inflammation of the Lungs, Chronic Catarrh, Chronic Dysentery, Cholera Morbus, Kidney Troubles, Disease of the Spine and Lamæ Back. Sold everywhere. Send for pamphlet to L. S. JOHNSON & CO., BOSTON, MASS.

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OUR TEA is giving splendid satisfaction. Prices, retail 24cts., 30cts., and 36cts. Prices, wholesale, very low. FIVE POUND TINS, (screw top), excludes the air, preserving the flavor and strength of the Tea. Just what is wanted. Half chests very cheap to the trade.

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Table with 4 columns: STATIONS, No. 1, No. 3, STATIONS, No. 2, No. 4. Lists train schedules for West and East directions.

Table with 4 columns: STATIONS, No. 5, No. 7, STATIONS, No. 6, No. 8. Lists train schedules for East and West directions.

Trains are run by Eastern Standard Time. Railway Office, Charlottetown, Dec. 17, 1883. JAMES COLEMAN, Superintendent.

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was the first preparation perfectly adapted to cure diseases of the scalp, and the first successful restorer of faded or gray hair to its natural color, growth, and youthful beauty. It has had many imitators, but none have so fully met all the requirements needed for the proper treatment of the hair and scalp. HALL'S HAIR RENEWER has steadily grown in favor, and spread its fame and usefulness to every quarter of the globe. Its unparalleled success can be attributed to but one cause: the entire fulfillment of its promise.

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Will change the beard to a natural brown, or black, as desired. It produces a permanent color that will not wash away. Consisting of a single preparation, it is applied without trouble.

PREPARED BY R. P. HALL & CO., Nashua, N.H. Sold by all Dealers in Medicines.

FOR ALL THE FORMS OF Scrofulous, Mercurial, and Blood Disorders, the best remedy, because the most searching and thorough blood-purifier, is

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A CURE GUARANTEED. MAGNETIC MEDICINE.

For Old and New BRYAN, Male and Female

Positively cures Nervousness in ALL its Stages Weak Memory, Loss of Brain Power, Sexual Incontinence, High Spermatorrhea, Leucorrhoea, Arteriosclerosis, Seminal Weakness, and General Loss of Power. It repairs Nervous Waste, Rejuvenates the System, Strengthens the Enfeebled Brain and Restores Surprising Tonic and Vigor to the Exhausted Generative Organs in both sexes. With each order for TWELVE packages, we send you the money for the treatment. It does not effect a cure. It is the Cheapest and Best Medicine in the Market. Full particulars in our pamphlet, which we desire to mail free to any address.

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CURE SICK HEADACHE

Sick Headache and relieve all the troubles incident to a bilious state of the system, such as Dizziness, Nausea, Drowsiness, Distress after eating, Pain in the Side, &c. While their most remarkable success has been shown in curing

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ACHE

Is the cause of so many lives that here is where we make our great boast. Our pills cure it while others do not.

Carter's Little Liver Pills are very small and very easy to take. One or two pills makes a dose. They are strictly vegetable and do not grip or purge, but by their gentle action please all who use them. In vials at 25 cents; five for \$1. Sold by druggists everywhere, or sent by mail.

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Oct. 22, 1883—cod wkly