

TO PUBLISHERS AND AUTHORS.

Reviews and Notices of Books will always have a place in the Journal, and the attention of publishers and authors is called to the excellent advertising medium it presents for works suitable to Public Libraries. A copy of a work it is desired should be noticed can be sent to the Editor, or to the Secretary of the Board.

TO INVENTORS AND PATENTEES IN CANADA.

Inventors and Patentees are requested to transmit to the Secretary of the Board short descriptive accounts of their respective inventions, with illustrative wood cuts, for insertion in this Journal. It is essential that the description should be concise and exact. Attention is invited to the continually increasing value which a descriptive public record of all Canadian inventions can scarcely fail to secure: but it must also be borne in mind, that the Editor will exercise his judgment in curtailing descriptions, if too long or not strictly appropriate; and such notices only will be inserted as are likely to be of value to the public.

TO CORRESPONDENTS.

Correspondents sending communications for insertion are particularly requested to write on one side only of half sheets or slips of paper. All communication relating to industry and Manufactures will receive careful attention and reply.

TO MANUFACTURERS AND MECHANICS IN CANADA.

Statistics, hints, facts, and notices of new discoveries, are respectfully solicited. Manufacturers and Mechanics can afford useful coöperation by transmitting descriptive accounts of LOCAL INDUSTRY, and suggestions as to the introduction of new branches, or the improvement and extension of old, in the localities where they reside

ERRATA

Page 260, 13 lines from the bottom, 1st column—strike out the words "*exclusively of Canadian growth.*"

Page 321, 3rd line from bottom of the 2nd column—for "as during the first trial," read "during the second hour of trial."

Page 323, 2nd column, 9 lines from bottom—for "carbonic acid," read "carbonic oxide."

"THE OIL CITY REGISTER."

A valuable weekly, published at Oil City, Venango County, Pennsylvania, and devoted to the interests of the Venango Oil Region. This paper always contains much valuable information respecting the American Oil Region, and whatever belongs to Petroleum, and the vast interests now dependent upon that material. Its terms are only one dollar a year, payable in advance.

PETROLEUM GAS—THE ST. NICHOLAS HOTEL, NEW YORK.

The subjoined certificate has been presented to Mr. Thomson, of this city, by the Proprietors of the St. Nicholas Hotel, New York, on the occasion of the introduction into that establishment of the new patented process for the manufacture of illuminating gas from petroleum.

The St. Nicholas Hotel is one of the largest in the world, and is well known both on this continent and in Europe. The proprietors state in their certificate, that the daily consumption of gas supplied by the Manhattan Company is 36,000 feet in the month of October, which is taken as representing the average of the year. The cost of 36,000 feet per day is \$90, at \$2 50 a thousand feet, so that the annual cost of lighting this establishment with the Manhattan Company's gas would amount to \$32,850 a year. The annual saving resulting from the use of petroleum gas, even when crude petroleum is at 50 cents a gallon, amounts to more than \$16,000; and if petroleum can be supplied at 20 cents a gallon, an extreme price in many parts of the United States and Canada, the saving will reach the large sum of \$24,000 per annum, according to the statement of the proprietors of the St. Nicholas, as contained in the subjoined certificate. By a process, which it is not thought advisable to publish at present, but which has already been put in actual operation in New York, the petroleum gas can be furnished of any desired illuminating power, from the equivalent of 36 candles downwards. In order to make this statement familiar to the uninitiated in gas illumination, it is necessary to remind the reader that the illuminating power of coal gas is universally expressed photometrically, in standard wax candles. The gas supplied to the St. Nicholas was examined at the Manhattan Gas Works, by Dr. Torrey and Dr. Wolcott Gibbs, from a sample conveyed to the laboratory of the company in a portable gas holder. The following is the report of Dr. Wolcott Gibbs, addressed to G. W. des Vœux, Esq., who undertook to have the photometric examination and analysis made:

SIR,—Agreeably to your request, I have examined the petroleum gas prepared by the process under Thomson's patent, and now exclusively used at the St. Nicholas Hotel. The illuminating power of the gas, as determined by photometric experiments, made in the laboratory of the Manhattan Gas Works, with excellent apparatus, was found to be equal to 27.48 standard candles; the illuminating power of the coal gas used in this city being from thirteen to nineteen standard candles, and averaging about sixteen.