

THE Whiton Manufacturing Company, Toronto, recently introduced "a new patent adding machine" for adding columns of figures, and offered in their advertisements to refund the money if purchasers were dissatisfied. They have sold thousands of these machines in the last few months and not one has been returned, which is pretty good evidence that the purchasers are satisfied. And we saw letters in the company's office the other day from some who bought one machine ordering others for friends, and speaking in the highest terms of their own. The supply is now equal to the demand, and all orders are filled same day as received.—*Toronto World*.

A CAREFULLY prepared estimate of the number of hands engaged in the lumber business in and near Ottawa shows that the six principal firms there employ during the summer about 5,620 men in their mills and about their yards, and in winter about 3,800 in their shanties and on their limits. The Upper Ottawa Improvement Co. employ during the summer months about 1,000 men. It is estimated that the total number of men employed in the limits on the Ottawa river is about 15,000. The lumbermen say that only about 25 per cent. of the employees in the mills during the summer go to the shanties in winter. The rest of their winter gangs are made up of outside men. Of the 3,800 men who work in the shanties during the winter, about 2,000 live in Hull and about 1,000 in Ottawa.

THE Dominion Safety Boiler Company, Montreal, of which Mr. J. F. Torrance, M.E., is manager, inform us that they have secured an order for one of their Field-Stirling boilers from the Acadia Coal Company, of New York, to supply steam to their collieries at Stellarton, N.S. The plans of this boiler were submitted to their consulting engineer in New York, Mr. Brotherhood, who reported that this is the well-known English "Field" boiler with many important improvements made by Mr. Stirling; and the use of the Canadian made boiler was strongly recommended. The company esteem this order all the more valuable because the Acadia Coal Company have heretofore used the Babcock-Wilcox boiler in their works.

THE manufacture of articles of different kinds from wood fibre is very largely increasing, and the branches of business this new industry will affect is constantly broadening. The success of the line of pails, basins, tubs and other household utensils sold as indurated fibre ware is assured. The newer lines lately developed are battery jars and cells and pipe. The battery jars are warranted to stand the action of battery solutions for the ordinary forms of batteries, and also the acids used in storage batteries. They have also many other points of merit which would be at once appreciated by an electrician. The pipe was originally intended and manufactured as a conduit for electric wires, but is reaching into many other fields, and will be of particular interest in warm climates where irrigation is necessary. It is light and therefore easily handled, is as cheap as iron pipe, cannot rust and is virtually imperishable, while its cost is below that of any equally durable material in the market.

MR. ROMAINE, of Ottawa, chief of the Dominion House of Commons stationery office, who left for the Old Country a few weeks ago, has deposited a model of his steam farmer in the Glasgow exhibition, and the implement seems to have evoked the most favorable comment from the Scotch agriculturists. It is designed to perform all the work at present done on the farm by horse-power, and further to substitute for the time honored custom of ploughing a system of cultivation which without inversion will thoroughly pulverize and aerate the soil, enabling the farmer to procure a seed bed superior to what can now be obtained by existing methods, and obviate in this and subsequent operations the serious drawbacks incident to the impaction of the soil produced by ploughing, and the continuous treading of horses over the cultivated land. Mr. Romaine is endeavoring to make arrangements for the purpose of having a machine built and tested on Scotch soil before winter sets in. There ought, however, to be sufficient enterprise among some of our Canadian manufacturers of agricultural implements to build one of these machines and test the value of this important Canadian invention.

MESSRS. WARDEN KING & SON, Montreal, are just issuing a brochure having reference to the Spence's patent hot water heaters manufactured by them. In the preface of the book they say that the present system of heating buildings by hot water circulation was introduced in Canada some twenty years ago by Messrs. Rogers & King, and that it has proved a great success. They also say that many of the largest public and private buildings in the Dominion, including civic buildings, churches, colleges, convents, asylums and schools, are now heated with the Spence hot water boilers. They are made in eight different sizes and of various kinds, and are suited in capa-

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