

NOTICE TO SUBSCRIBERS

RECEIVING THE *Scientific Canadian and Mechanics' Magazine* THROUGH AGENTS or STATIONERS.

With reference to our PROSPECTUS FOR 1880, in which we state our intention to donate to each subscriber belonging to a mechanical trade, one ILLUSTRATED SUPPLEMENT SHEET of TECHNICAL INSTRUCTION, every month, relating to his own trade, we will therefore feel obliged to such subscribers as obtain the Magazine through Agents or Stationers, and whose names we know not, to notify to us the trade, of any they follow, in order that we may enter in each monthly number the proper Illustrated Supplement.

We would prefer, if convenient, that all subscriptions should be sent in direct to the office.

TO SUBSCRIBERS IN ARREARS.

We respectfully call the attention of such of our subscribers who are in arrears of payment, to the propriety of remitting to the office the amount due before the close of the current year.

The heavy expense the company is incurring by printing Illustrated Supplement sheets of Technical Instruction in every trade, twelve of which will contain as much information as many books sold at from \$2 to \$3, is the greatest boon to mechanics ever offered by a *Mechanics' Journal*. We sincerely trust, therefore, that not only will remittances be more prompt in future, but that the *Mechanics* of the Dominion will appreciate our endeavours to afford them and their children mechanical instruction and general knowledge in the most practical form, by liberally supporting for the future this useful magazine.

AS THERE ARE MANY WHO HAVE SENT IN THEIR NAMES AS NEW SUBSCRIBERS FOR THE COMING YEAR, WHO MAY WISH TO OBTAIN THE FIRST VOLUME OF THE MAGAZINE UNDER ITS CHANGED TITLE OF THE

SCIENTIFIC CANADIAN AND MECHANICS' MAGAZINE,

we desire to intimate that we shall have a few unbound volumes of this year remaining on hand which can be obtained at the usual rate, vizt. \$2. This volume is especially valuable to young mechanics, as it contains the whole of Collin's Elementary work on Machine Drawing, and illustrated by over 50 plates and as many more of minor illustrations. We have also some back numbers for the years '1873, '74, '75, '76, '77 and '78 of the Magazine under its old title of *CANADIAN MECHANICS' MAGAZINE* which are lacking one or two numbers, these we will dispose of for SEVENTY FIVE CENTS per volume.

These papers contain much matter of permanent interest, and are profusely illustrated; they will be found particularly useful for constant reference by every *MACHINIST* and *MECHANICS* of almost any trade, as well as to *ARCHITECTS* and *BUILDERS*. Each number contains the *PATENT OFFICE RECORD* of patents issued in Canada during the previous month.

OUR AMERICAN EXCHANGES.

We beg to acknowledge, with many thanks, our indebtedness to our *Exchanges* for much valuable information derived from their columns. We have given a free advertisement to several of them in our monthly catalogue of useful books and periodicals, published for the information of our subscribers, and shall always have much pleasure in recommending them to those whose business lies in the line represented by each particular paper.

New Publication.

THE MILLING WORLD AND CHRONICLE OF THE GRAIN AND FLOUR TRADE.

This new monthly journal which is published by C. A. Wenborn, 194 Main Street, Buffalo, N. Y., appears to be a work of great merit and should be taken by all Canadian millers, the subscription price is only \$1 per annum. We cannot pass a higher compliment upon its merits than by giving to our milling friend two of its leading articles and an example of its editorial ability.

SHALL THE MILLSTONE BE SUPERSEDED?

The greatly improved methods of milling that in the past few years have been so universally adopted, have but stimulated a spirit of progress, and awakened a desire to attain still greater perfection in the art of flourmaking; and, in seeking new avenues for advancement in the science, it is but natural that the feasibility of improvement in the methods of reducing the wheat, should be canvassed and discussed; and it is questionable if any topic now under consideration by the theoretic miller excites as lively interest, or one concerning which a greater diversity of opinions exist.

With the advent of "New Process" milling came the necessity for improved methods of reduction, or rather improvements in the devices by which the reduction of the wheat berry was accomplished, and whether the full "high grinding" system, or its modification known as "half high grinding" was adopted as the practice, important changes in the dress and suspension of the burrs were essential to the successful realization of the object sought. At first changes in the dress of the burrs were supposed to be sufficient, and innumerable "patent" dresses, and others profoundly "secret" have at various times been offered the milling fraternity as embodying everything desirable to facilitate proper granulation. The necessity for having the burrs in proper train and balance was recognized, and numberless devices were originated to ostensibly meet this requirement, but after protracted experience in the manufacture of the finest flour in the world (with one exception), the inevitable Yankee spirit of ambition to excel steps in and suggests possibly better results, by the adoption of another system, and the advisability of, or probable benefit to be derived from a change of methods is now being agitated.

In past years numerous attempts have been made to obtain a substitute for the millstone, a substitute that would not when in operation become heated, that would not need dressing so often, and under the old system of milling, that would not pass so easily—but in this country very little attempt was made at the substitution of a device which should perform the function of flourmaking in a mechanically different manner, until within the past three or four years.

With a view of arriving at an intelligent decision of this vexed question, let us consider the advantages and disadvantages of the time-honored millstone, as compared with those of its (shall we say formidable) proposed rival, the roller. It is hard to part with an old and tried friend under any circumstances, and still harder, if from lack of proper championship of his good qualities he is banished to make way for one whose bad qualities may have been purposely or unwittingly concealed.

It is well to bear in mind in considering this matter, that the