

improper corrugation to the rolls first used. Mr. Meldrum also stated that since the Mill had been in operation from seventy-five to one hundred practical millers had visited and inspected the Mill, and every one had approved the system and expressed the opinion that it was bound to surpass all other Mills. Mr. Meldrum stated that the Mill was put in by a Canadian syndicate with the understanding that if it did not operate to his satisfaction, and do better than the Greey Mills, it was to be taken out, and he to receive damages for the delay at the rate of forty dollars (\$40) per day for time, in addition to all other damages. That the Mill had been to him a gratifying surprise, that he had now become the owner of it and could not be induced to replace it by any other Mill in existence; that he had no interest whatever in the Cochrane Mill patents or company, beyond this Mill, and the money he can make by its operation.

Your Committee found Mr. Meldrum not only to be a miller of great practical experience, but in the enjoyment of the full confidence of his fellow-citizens. Your Committee made careful examination of the Mill and its product, and we do not hesitate to say that in our judgment it is the Mill of the future.

It was stated that the Greey Mill cost Meldrum, Davidson & Co. \$3,200.00, and over \$1,600.00 for pulleys, belts and cost of erection, making an outlay of \$4,800.00 for the Greey Rolls in operation. Whereas, if the Cochrane Mill is sold at \$3,000.00, the total cost of Mill and erection will not, we think, exceed \$3,100.00. The Greey Rolls gave an output of 110 barrels in twenty-four hours, but the Cochrane Mills, costing \$1,700.00 less, will, according to Mr. Stetzel's test, produce 192 barrels in twenty-four hours.

Your Committee believe the report of Mr. Samuel R. Campbell, the expert employed by Mr. Fuller when he was investigating the accuracy of Mr. Cochrane's claims, read by Mr. Fuller before this Association, is correct. Mr. Campbell reported "that the whole power of the Flour Mill is about seventy horse power, of which the Greey Rolls required about thirty-five horse power." He goes on to say, "allowing the thirty-five horse power to the balance of the Mill, and ten horse power to the (Cochrane) Rolls, we have a total of forty-five horse power now necessary to drive the whole Mill, which is confirmed by the fact that the water-wheel gate requires to be open but one-half now, while the whole gate was required before the change."

From this it will be seen that in the driving of the **Cochrane Rolls there is required but ten horse power, while the old system requires thirty-five horse power.**

In addition to the foregoing, the Committee are satisfied that the Cochrane Mill produces from the same amount of grain, a much larger per cent. of middlings, and the quality of the flour by reason of the absence of belts, and the positive motion of the entire rolls is of a more even granular. In proof of this, Mr. Meldrum produced and showed to your Committee letters from his Glasgow flour merchants, showing that they were offering him for his flour nine pence per sack over the highest market quotation. The Committee are satisfied the Cochrane Mill can be operated with much less attention than any other known mill.

We approve Mr. Stetzel's special report, which speaks for itself.

Your Committee is of opinion that Mr. Cochrane is possessed of a valuable improvement in milling machinery, and that the citizens of Toledo should secure the same if possible.

We are satisfied that other strong combinations are being made at other points to secure the same, and unless promptly secured by Toledo the opportunity will be lost.

R. B. MITCHELL.
MILTON CHURCHILL.
F. N. QUALE.
SAM T. FISK.

N. B.—The three first named members of Committee are Millers, and the last named is Chairman of the Committee, appointed to investigate into the merits of this Patent. As a result of this investigation Mr. Melton Churchill, has ordered a train of the "Cochrane Mills" for a Mill he is now erecting at Toledo.

MR. STETZEL'S REPORT.

Mr. Sam T. Fisk.

TOLEDO, Nov. 4th, 1887.

DEAR SIR: As per request of the committee I remained over at Peterboro' to test the capacity of the Cochrane mill. I find it capable of turning out 192 barrels or more every 24 hours. You have my permission to give this wonderful invention the very strongest endorsement, and I will say that I consider Mr. Cochrane has fully carried out his statements to your association.

Am sorry could not remain in Toledo and attend your meeting Saturday night. Please say for me that I consider this a grand opportunity for Toledo to get a very important enterprise and one destined to be very profitable.

Yours, etc.,

J. A. STETZEL.