its lowest. He was afraid to say what the cheapness of water really was under the best conditions. Perhaps \$5 per horse-power per year might be taken as an extreme figure. The author, according to Mr. Unwin, only referred to the transmission of water power by electricity. In cases where there was a large surplus of water power, as in parts of Switzerland, electrical transmission was convenient, but in most instances it was not desirable to let a large quantity of water goto waste, and then came the question of storage. Reference had been made to accumulators, but in any large installation of power transmission, this method of storage was so expensive as to be out of question. great advantage of water as a means of obtaining power was that it lent its use readily to storage. At Geneva, on the Rhine, they used turbines placed in the river to pump water up to a storage reservoir, and it was this water that supplied the power for lighting Geneva at night. Here, the lowest price quoted for electricity was 6d. per unit; in Geneva it was obtained at 1d. per unit. In the Calumet and Hecla mines power was transmitted electrically, it having been tried on a very large scale, but the engineer had come to the conclusion that it was very expensive, and in future it was proposed to go back to air.

Mr. Kapp, referring to the cost of transmitting power electrically, said that in Switzerland, where the power obtained from the Rhine was formerly transmitted by ropes, electricity was now used. 700 volts, 700 horse-power was transmitted at the cost of 50 fr. per horse-power per year, which was not so far from \$5 per horse-

A Novel Experiment.

The details of an interesting experiment which was made in a textile mill at Verviers, Belgium, is described in one of our foreign exchanges, and presents some novel features. The factory employed twenty-five weavers, three of whom were women, upon an equal number of looms. It appears that one of the operatives proposed to his fellow-workers the "pooling" each week of their earnings, and an equal division of the proceeds. The suggestion was examined, discussed, and finally adopted. The employer, when consulted, gave a free hand to the weavers to arrange as they pleased, and to distribute their earnings in whatever way suited them. The arrangement referred to accordingly continued for several weeks, to the complete satisfaction of every one, employers and employed. The weavers, instead of being suspicious of each other, vied with one another in the performance of their tasks, agreed admirably, and rendered mutual support. The experiment, however, appears to have been faced with a difficulty. For several weeks past seven opera-

tives have had to "play." Immediately arrangements were made 1 order that all might participate in the holidays. Four weavers, turn by turn, took their leave; three others occupied themselves in se ondary occupations, such as warping, etc. At the end of the week each received the same wage—the "players" and the workers alike According to our authority.

According to our authority, the experiment appears to have been the successful income. further successful, inasmuch as in spite of these conditions the output of the weaving shed was actually increased. The operative who furnished this information additional that the state of the weaving shed was actually increased. furnished this information adds that the shed included, like all others "orthodox" and socialist weavers, good ones and bad ones. According to him, the experiment will result in the merchants being furnished with what they require without the form of the control in the merchants being furnished with what they require without the form of the control in the contr ed with what they require, without the fear of foremen exploiting the operatives who happen to be under them. He thinks that this innovation will extend to the other match that it shall be a state of the control of t tion will extend to the other establishments of Verviers, and that it will improve the lot of a considerable proportion of the working-class population.

population.

That the experiment should have worked so satisfactorily in the instance cited is not perhaps remarkable, considering the small number of weavers employed, and the necessity of mutual sacrifices the common good. In a limited content of mutual sacrifices and the necessity of mutual sacrifices and the common good. the common good. In a limited organization, this principle may often be carried out without great difficulty, but when it is attempted apply it in the case of lower at the case to apply it in the case of larger establishments it is to be feared the results would not prove a matter. the results would not prove so satisfactory. In order to achieve success in such an undertaking, it is absolutely necessary that all should be actuated by the same metions and the same sections. be actuated by the same motives, and that each should be willing to bear his share of the burdless and that each should be willing to bear his share of the burdens and sacrifices involved. Such a pervading spirit of altraigns in heart vading spirit of altruism is hardly to be found in large assemblages of working men.—Manufacturers' Review.

Wastage in Certain Manufactures.

The drawback provisions in the United States tariff laws often maken necessary for the minutes of the United States tariff laws often maken necessary for the minutes of the United States tariff laws often maken necessary for the minutes of the United States tariff laws often maken necessary for the minutes of the United States tariff laws often maken necessary for the united States tariff laws often maken necessary for the united States tariff laws often maken necessary for the united States tariff laws of the united State it necessary for the custom officials to determine what is the wasta in certain manufactures which are made of foreign material and exported. The report of custom distributions and supported. ported. The report of custom decisions made in November, 1932 contains several of these wastage decisions.

The first decision gives the wastage in making clock springs imported steel wire rods; the decision is that the quantity of imported used in the manufacture of the manufacture of the rods used in the rods used in the manufacture of the rods used in the rods used rods used in the manufacture shall be determined by adding to net weight of the exported article as certified by a United State weigher 16 per cent. of such weight. This means that the waste is little over 14 per cent.

little over 14 per cent.

A second decision has reference to the allowance for wastage of the second decision has reference to the allowance for wastage are used in making salmon cans. These cans, the decision shows, made from 14x20 tin. The Secretary of the Treasury says

Second-Hand Engines and Boilers for Sale by the

GOLDIE & McCULLOCH CO., Ltd. GALT, ONT.

100-h.p. Wheelock Engine. 90-h.p. Wheelock Engine.

75-h.p. Slide Valve Engine.

60-h.p. Buckeye Engine.

50-h.p. Slide Valve Engine.

40-h.p. Slide Valve Engine.

35-h.p. Slide Valve Engine. 30-h.p. Slide Valve Engine. 15-h.p. Slide Valve Engine. 10-h.p. Slide Valve Engine. 100-h.p. Return Tubular Boiler.

90-h.p. Return Tubular Boiler.

80-h.p. Return Tubular Boiler. 70-h.p. Return Tubular Boiler. 55-h.p. Return Tubular Boiler. 30-h.p. Return Tubular Boiler. 18-h.p. Return Tubular Boiler.

The above Engines and Boilers have been replaced by Wheelock Engines and New Boilers of greater power, and will be rebuilt and sold at very reasonable figures.

For Particulars Apply to

The Goldie & McCulloch Co., Ltd. - Galt, Ont.

DENNIS' Tubular Steel Barrows

DIRT FOUNDRY ROLLING MILL BARROWS

For Hard Wear, Strength and Durability they are simply Unequalied.

Though "Extra Strong" they are not heavy to handle.

MANUFACTURED BY

Dennis Wire and Iron Works, London, Ont.

Michigan Emery Wheel

194 Catherine St., Detroit, Mich.



Solid Emery

Corundum Wheels.

Perfection .

Send for Price