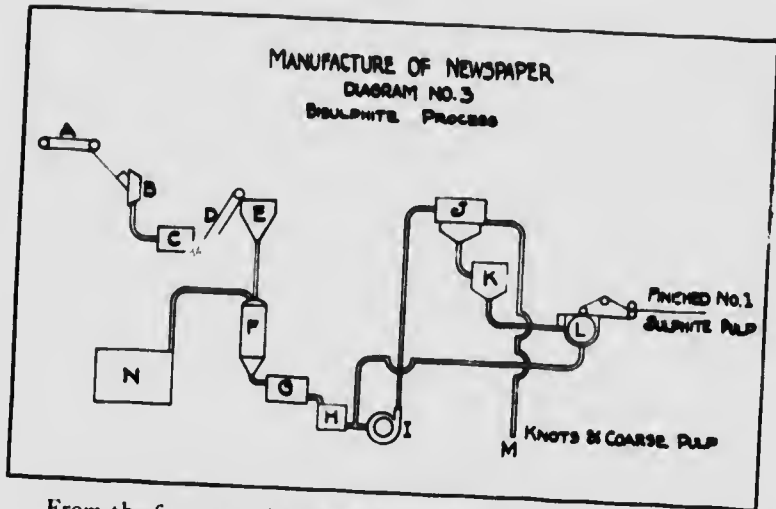




From the first cost of such a plant as shown on Diagram No. 1 it is apparent that in view of the small amount of power required, no economy would be effected by using only restricted power.

Such an installation requires in addition to motive power, heat in the digester, shown in Diagram No. 3, under letter "F", where the wood chips are boiled in a solution of sulphurous acid, under about 80 lbs. steam pressure. The amount of heat required varies considerably, depending on the method employed in the working of the wood. While this demand is very irregular it is assumed in general practice that boiler capacity sufficient to deliver hourly 1,000 lbs. steam per ton capacity of plant per 24 hours is necessary. From this it will be seen that at a moderate price of coal the motive power required can be produced by a slight allowance in the capacity of the steam plant.

Large quantities of water are required in the manufacturing process, and the water should be comparatively clear as any impurities carried in it are likely to remain in the pulp and thus affect the value of the finished product.

The power consumption required for the water supply has not been considered as it would depend entirely on local conditions.

PAPER MILL

In so far as the writer is aware, no news-paper mills have been built close to the point of consumption in Canada, but in countries which import the raw materials for the manufacture of paper, mills have been