

is used chiefly as an adjunct in the manufacture of news and wall papers and printings, but there are several distinct classes of paper made from mechanical pulp without any other ingredient. Woodpulp boards are also made from mechanical pulp chiefly for the purpose of making paper boxes.

The rapid development of railways and telegraphs; the spread of education; exciting events on this continent, such as the civil war in the United States of North America, combined to create an enormous demand for news, and led to the establishment of many newspapers. The growth of the literary taste led to the development of book-making. In Canada, during the past 16 years, the number of newspapers increased from 644 in 1885, to 1,251 in 1900, and the daily newspapers from 71 to 121, with a circulation in the aggregate proportionately greatly in advance of the increase in the numbers.

The same development, or one nearly equal to the Canadian, taking place in other countries on this continent and in Europe, led to a very enlarged demand for paper, and soon paper-makers found it impossible to meet the ever-increasing demand. Rags, cotton waste, straw, esparto and all the other articles tried and used together were not sufficient. Nor did the price suit. Out of the necessity of the time came the development of the chemical processes and of the mechanical processes by which a good and cheap paper was evolved. Wood paper suited for most requirements was in fact invented.

Chemical pulp is used as an adjunct with esparto, rags or mechanical pulp in the manufacture of news, printing, colours and some kinds of wrapping paper.

By combining chemical pulp and mechanical pulp in the proportion of about 30 or 40 per cent. of the former a good paper results such as can be used with success for most of the purposes for which paper is needed.

But complete success had not even yet been reached. The practical operations connected with the manufacture of pulp from wood by the caustic soda process—such as barking, sawing, chopping, crushing, boiling or digesting,