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e Cultivation and Preparation of Flax.

(Continued from page 167.) Conversion of the Straw into prepared bre.—The first operation is that of separatthe seeds from the stems, a process termed ppling," which is effected by drawing the ds of the sheaves through a stout ripple, or h, firmly fixed on the centre of a bench or h, which allows of two persons to work at same time. This is best performed when flax is fresh from the field, but when the w is dry and rigid by keeping, the seed-bolls best separated by a "beater," which preis the fibre from being broken and injured, n used with care.

arious processes have been adopted for reing the straw to prepared fibre, but they may e classed under two heads ; the mechanical, hich the operations are conducted in a dry , and the chemical, in which moisture and erature are more or less necessary. In the the object is obtained by the different parts mechanically separated from each other out any changes being effected; in the lathe plant itself is disintegrated, either by ction of fermentation, which destroys, or mesolvent, which merely abstracts the ceing matter by which the several parts of traw are held together. The dry or mecal method can only be applied with advanin case of inferior straw, and for coarse not requiring to be bleached, as canvas,

rick covers, rope-yarns, &c. The chemical or wet process "is effected in three different ways, in each a different principle is involved. The first is that where the separation is effected by simple fermentation, known as "steeping;" the second, where it is due to the abstraction of the nitrogenized extractive compound by the agency of chemical solvents; the third, where simply water, either heated or in the shape of steam, is made use of for the same purpose.", In the first, which is the oldest and still the most prevalent system, a destructive fermentation is carried on, either slowly or rapidly, ac cording to the temperature of the water in which it is steeped, at the expense of the extractive matter of the plant, and offensive and noxious gases are generated; in the second, this matter is removed by the aid of chemical ingredients, which are costly, and never altogether efficient in their action; while, by the third, the separation may be effected without any chemical changes taking place in the composition of the plant, and all its several parts be left in an available condition.

The following description of the modes of preparing flax for manufacturing purposes as practised in the British Islands is taken from a Report of Mr. A. Kirkwood, who was deputed by the Canadian Government in 1854 to visit Europe with a view of ascertaining the mos approved methods of growing and preparing this invaluable plant. Some subsequent im provements in matters of detail have been made,