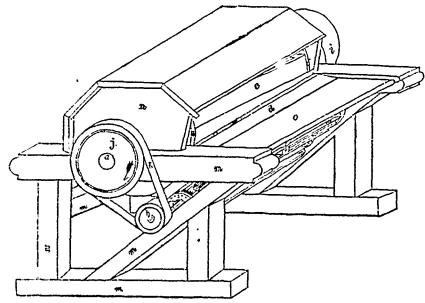
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The British American Cultivator.

[Ocr.

In machinery heretofore employed for breaking My invention is for the purpose of obviating and cleaning hemp, &c. at one operation, by re- these dificulties, and is of the following nature : I volving brakes, the hemp has been acted on dut employed a large revolving break, with the ring a large portion of the circle of revolution, swords set at a taugent (this is necessary to the the hearp being broken by passing it between a well working of the machine, as a small one pair of rollers or revolving breaks and scutchers, would present the swords at too great an angle, that mesh into each other, and break the hemp, which acts against a stationary bed-plate, and by bending it short between them. This method, there breaks the hemp as it is presented by the is highly objectionable, in consequence of the great hand. The ends of the hemp, as soon as they length of the fibre over which it is scraping, which pass down below the edge where they are broken, is found to wear the heing in practice so as to are thrown off by the centridugal action of the render it unmerchantable; it has also been at-frevolving blades, and they do not come in contempted to break and clean the hemp between a fact with it any more, but as the hemp is fed in revolving break and a stationary concave, but this the ends aforesaid pass down and are caught method is liable to the same objections. In fact, between the soutchers at the angle of their juncthe hemp never can be broken and cleaned by tion, without laying against either so as to be the same roller that breaks it, without subjecting rubbed, and is thus cleaned. The scutchers are it to injurious wear. Consequently, the machines tery small cylinders, with blades projecting from have been abandoned as useless; for if the hemp them radially, that only mesh slightly (if at all) is broken by a stationary break, against which past their pitch-lines; these only act on that part the revolving break acts, and thence passes to of the hemp immediately between them, or at the another wheel, placed in contact with said re-ljunction of their curves to clean it, and it passes volving break, to be soutched, the break scrapes through them without injury—which is not the over the hemp the whole distance from the bed-lease where the breaking and cleaning are done brake to the point where the scutcher acts, and by the same wheel or roller on the different parts of its circumference. wears the surface into tow.

Perspective view of F. P. Holcomb's Hemp and Flax Gin.



The construction of my apparatus is as follows: straight, horizontal, stationary bed-piece (d), On the cap-pieces of a suitable frame (m) I suswhich is armed with iron and attached to the pend a shaft (a) in suitable bearings, on which I frame(m); back of this bed-piece, and a little affix two cylinder heads (b), to which I attach any suitable number of slats or beaters (c); these which the hemp is fed into the machine; just are placed diagonally, and are made to act on a below the bed-piece, two small soutcher cylinders