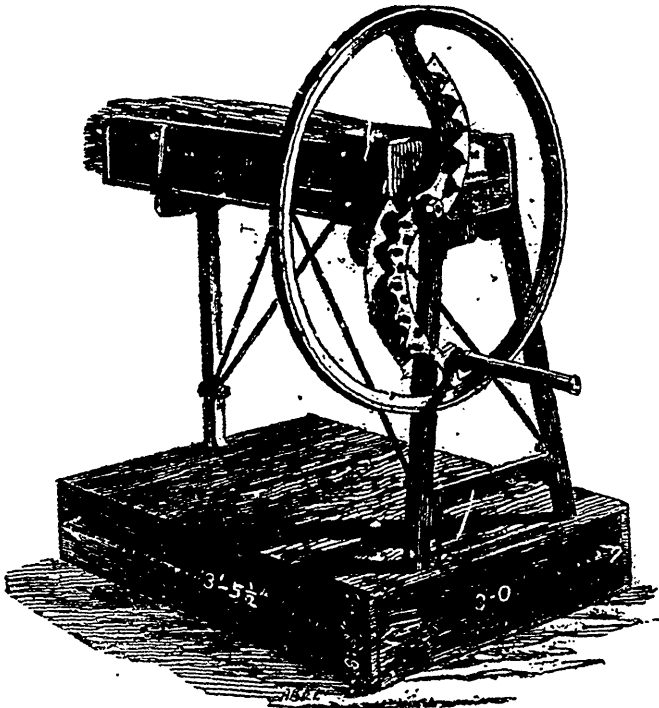


There are several classes of these machines in use both in Europe and America, most of which possess some particular advantage or other; those known as the *disc*, seem to be generally preferred for ordinary purposes. The principal feature, the cutting knife, fixed upon the fly-wheel, is invariable, except that it sometimes carries one, at other times two knives. The machinery or details are exceedingly varied. In some, it is adapted to cut of various lengths by means of ratchet wheels and lever catches applied to the motion of the

a straw cutter manufactured by Messrs. Ransomes and Sims, of Ipswich, England, specially adapted for exportation; and of which large numbers have been sent to the British Colonies. It is entirely made of iron and steel, and so arranged as to take to pieces and pack into a box measuring 3 feet 5½ inches by 3 feet 1 inches, by 8¾ in. deep, or about 7½ cubic feet, as shown in the engraving. It has a mouth 8 inches wide, and cuts the straw into ¾ in. lengths. But little power is required to work it; a stout boy can easily cut from 10 to 12



feeding-rollers, and at the same time to move the substance forward only in the intervals of the strokes of the knife; in others, the motion of the straw at intervals only is attended to; in a third, a continuous motion of the straw is deemed sufficient; and these varieties of motion are produced by other and various arrangements of spur, bevel and screw gearings.

The accompanying engraving represents

bushels of ½ inch chaff per hour. The machine being simple in its construction and made of the best materials in a substantial manner, is not liable to get out of order, and with proper management will be found very enduring. Price £3 15s. Packed in case with the following extras: 1 worm, 1 pair of wheels, 1 pair of knives, with half a dozen each of bolts and set screws, £5 5s.