n factories working twelve vats, two sets of ing rollers will be required. A ground plan tranging these and their accompaniments s esented by Fig. 3.

little girl, A, opens the bundles of straw, es them to B, who divides them and gives n to the seeder C. She places them on the re table from which they are taken by D, seduty it is to pass the seed end through buffing machine to separate the chaff.

his is a covered cylinder, three feet in diam and five feet in len_th, making one hundred thirty revolutions per minute. On its cirference are six rows of wooden teeth, each re inches long, and distant from each other a half inches at base.

either straightens the root end by hand, or

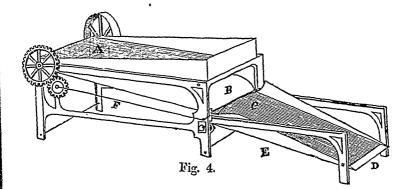
puts a loose bundle in the machine for the purpose. from which it is taken by F, and bound. The same routine is performed on the opposite side.

If more straw is seeded than is required for steeping, it is re-stacked.

Six tons of straw with the seed on may be done by two sets of rollers per day, at a cost of two shillings and ten pence per ton.

All the seed, chaff, and uncrushed bolls that come from the seeding rollers are passed through a machine, (Fig. 4,) having two serves. The wires in serve A, are about $\frac{1}{10}$ of an inch apart,

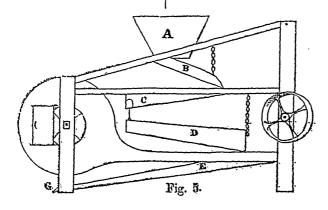
those in seive C, 1 of an inch. The flax-seed, chaff, and sand fall through it, upon the shuffle-board B, which delivers them to



The chaff passes over to the floor at F. In gives motion to it, causing it to rise and hih a jerk. A horizontal motion is given by the crank-rod F, worked by the p nion Chas a motion similar to A. funcrushed bolls separated by the seive A,

rough which all the seed and fine dust fall are either crushed, or sold to farmers for feeding purposes at one shilling and two pence per bushel. The chaff is worth from two pence to four pence per bushel.

An arrangement is made at E, (Fig. 4,) by hich elevators raise the seed to the hopper A, (Fig. 5.)



isside view of the fanners are represent | tal motion from cranks, and two serves (C, E) shuffle-boards (B, D;) having a horizon | moved by cams. The serve C is made of par 1