



Fig. 1 of the accompanying engravings is a partial side elevation, and Fig. 2 a plan of the machine.

a, a, is the revolving drum or cylinder mounted on a shaft or spindle g, and fitted with a comb h, and with beaters s. s. round its peri-One comb and five beaters, are found phery. to act well, but the number of either may be Figs. 3 and 4 are views on an enlarged altered. scale in front elevation, and plan, of a comb detached. B is a side or framework enclosing the upper part of the drum; C, C, are louvre plates inclining downwards to allow of the broken boon or woody particles detached from the flax or other fibre under treatment passing off freely, and being blown down to the floor by a current of air passing from the cylinder through the The object of the louvres is to pre. louvres. vent the boon getting embedded with the fibre-D is the feeding board; it is made as shewn to enable the attendant to feed and handle the straw and flax during the operation with safety. A set screw is connected to the plate b for the purpose of regulating the distance thereof from the comb and beaters, which distance requires to be modified according to the nature of the fibres **F** is the front plate of the being operated on. louvre casings, c, c, are passages or channels by which the boon is led to the openings e, c, dthrough which it falls to the ground; ff are fast and loose pullies mounted on the spindle g. The flax, hemp, or other material to be scutched is fed by the hands of an attendant to the drum or cylinder by means of the board .D, and is submitted to the action of the comb and beaters; the material is allowed to pass on into the machine until one hand of the attendant comes nearly in contact with the fiont plate F, when the materials is withdrawn, turned upside down, re-inserted, and submitted to the same operation, and so on until it is sufficiently scutched. - Mech. Mag.

Importance of Birds to Growing Crops

20, DANIEL ST., BATH, Jan. 29, 1862.

To George Buckland, Esq., Professor (Agriculture, Toronto.

DEAR SIR,—In looking over my memorandubook the following slips respecting the useful ness of birds in destroying insects, cut for newspapers, is sent for your information. I the information be not in your possession, plex give it a corner in the Upper Canada Agrical turist.

1st slip.—Birds and Insects.—At the la Agricultural meeting at St. Gallen, Switzerley Baron Von Tschudi, the celebrated Swiss netw alist, dwelt on the important services of birdsi the destruction of insects. Without birds, a he, no agriculture and vegetation are possible They accomplish in a few months the profitab. work of destruction which millions of hum. hands could not do half so well in as may years; and the sage, therefore, blamed in w severe terms the foolish practice of shootings destroying birds, which prevails more especial in Italy, recommending on the contrary the p. cess of alluring birds into gardens and comfele Among the most deserving birds he counts st. lows, finches, titmice, redtails, &c. The nu alist then cites numerous instances in support his assertion :- In a flower garden of one of. neighbours, the trees, all rose-trees, had be suddenly covered with about 2000 tree lice . his recommendation a marsh titmouse was. cated in the garden, which in a few hours a sumed the whole brood, and left the roses fectly clean. A redtail in a room was obsen to eatch about 900 flies in an hour. A con of night swallows have been known to destry whole swarm of grubs in 15 minutes. Apu golden crested wrens carry insects as food