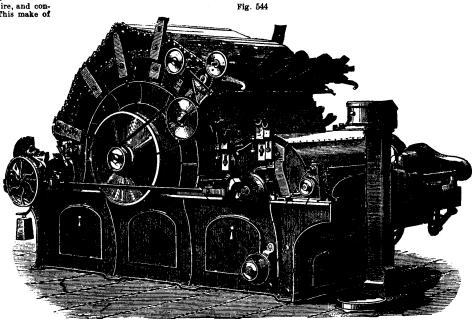
Card'ing Ma-chine'. The revolving, or traveling-flat carding machine, exhibited by Dobson & Barlow, of Bolton, Britain, at the Centennial, has a cylinder 50" in diameter, 40" wide on the wire; doffer 24" diameter, takers in 9" diameter, also 70 iron flats 2" broad, which have been tested by an apparatus which insures perfect accuracy.

The flats travel over the cylinder supported on a flexible iron bend which has 5 adjusting screws, and by this means the flats can always be accurately set at the proper working distance from the cylinder. The machine has fixings for grinding the flats while the card is at work; also for grinding the cylinder and doffer separately. No less than 27 flats are always at work on the cylinder at any time.

The machine has a taker-in with inserted wire, and containing eight separate coils in every inch. This make of



Dobson & Barlow's Carding Machine.

taker-in is preferred on account of its not being so liable to choke as the ordinary wire, but is always clean, and requires no grinding. This card is also arranged for stripping out the cylinder by power, and has an angular bar casing under the cylinder only, with adjustable plate to and from the doffer, adjustable knife under taker-in, and sheet-iron division between the cylinder and the taker-in, to keep the waste from each separated.

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oylinder only, with adjustable plate to and from the charactery adjustable knife under taker-in, and sheet-iron division between the cylinder and the taker-in, to keep the waste from each separated.

The advantages of this card are, that the flats can be ground on the machine. The fixings for supporting the flats, knives, etc., are fitted on planed surfaces cast with the bends, so that they are not liable to be moved from their proper positions. All the flats are well borne up when not working on the cylinder, so that the person setting them may be able to test their accuracy without difficulty.

The cylinder and doffer can be ground separately at one time, if required.

The composite carding machine of Dobson & Barlow, of Bolton, England, has a cylinder 45% in diameter, 40% wide on the wire; doffer 22% diameter, taker-in 9% diameter, two clearers 4% diameter, and 16 flats 24% wide, stripped in three different ways. The six flats at back nearest the feed roller are stripped three times, the five center ones twice, and the five at front once, thus stripping those flats most charged with waste more frequently than the flats nearest the doffer which are least charged.

This stripper is so arranged that a quick motion is given during the time the flat is being stripped, in order to prevent any collection of fly in its absence from the cylinder. The flat stripper is also cleaned by a top stripper, thus allowing the flat stripper is also cleaned by a top stripper, thus allowing the flat stripper is also cleaned by a top stripper, thus allowing the flat stripper to pass underneath the flat perfectly clean, and without the necessity of touching the wire, except in one direction, and that when stripping the flat.

See also, French carding machine; Figs. 1324-1326, article "Lainers," Laboulaye's "Dictionnaire des Arts et Manufactures," tome ii , ed. 1877.

In Platt Bros. (Oldham, Britain) carding machine, the oiling apparatus for wool is applied under the first burring (steam) cylinder, the oil being supplied to a trough