





# UNITED STATES PATENT OFFICE.

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## FEEDING ATTACHMENT FOR MANGLES.

No. 843,709.

Specification of Letters Patent.

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*To all whom it may concern:*

Be it known that we, JOHN H. SLACK and WATKIN W. RILEY, citizens of the United States, residing at Cincinnati and Norwood, Ohio, respectively, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Feeding Attachments for Mangles, of which the following is a specification.

Our invention relates to an improvement in laundry machinery of that particular class to which mangles belong.

The object of the invention is to produce an improved feed attachment which will regularly and smoothly deliver the goods into the machine proper without danger of damage to the goods.

The features of the invention are more fully set forth in the description of the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an end view of the mangle, showing the attachment. Fig. 2 is an enlarged vertical section showing the relative positions of the parts. Fig. 3 is a detailed elevation, partly in section, showing the feed-rollers. Fig. 4 is a top plan view of the feed table and belts. Fig. 5 is a detailed sectional view of one of the feeding-fingers.

1 represents the ordinary hollow drum or cylinder of a mangle, and 2 represents co-operating rollers peripherally contacting the drum.

In Fig. 1 only the entry or receiving end of the apparatus is shown.

3 represents the driving-pulley on shaft 4, having the worm 5, driving a gear 6 on shaft 7. Shaft 7 drives a set of transmission-gears, which mesh into the large gear 8 on the drum and drives the same. 9 represents a sprocket-wheel also fixed to the shaft 7, which drives the second sprocket-pinion 10 on shaft 11 by means of sprocket-chain 12. Shaft 11 is provided with belt-feeding roller 15.

14 represents a co-operating roller driven from shaft 11 by means of the intermeshing gears 13 16. (See Fig. 3.)

Fig. 2 shows a sectional view of the feed-

table, from which view and from Figs. 3 and 4 it will be seen that 17 represents a series of belts passing around the roller 15 and over the front end of the feed-table 18. The roller 14 has a driving contact with the belts 17 and insures a uniform feed thereof. Projecting forwardly and upwardly from the front end 18 of the feed-table is a series of guiding-fingers 19. (See Fig. 5.) These fingers lie intermediate of the belts, so as to separate them, and they extend well up between the converging peripheries of the drum 1 and the first of the rollers 2. As a result of this arrangement the articles to be handled by this machine are uniformly fed into position where the advancing edge of the article will be caught between one of the rollers 2 and the drum 1. The fingers not only deliver the articles uniformly and smoothly to this position for being gripped by the mangle, but they effectually prevent any tendency of the article or a portion of the advancing edge thereof to follow the belts where they detour downward over the front end of the feed-table 18 for the reason that these fingers bridge the gap between the end of the feed-table and the meeting surfaces of the drum and roller.

Having described our invention, we claim—

In a device of the class described, a large drum and a coacting roller, a feed-table having a series of acute-angle fingers projected from its front end into position between the roller and drum, a driving-roller at the rear end of the feeding-table, a series of feed-belts passed around the said driving-roll and feed-table, and passing between the fingers at the front end of the table, a friction-roller contacting the belts and driving-roller, and means for imparting rotation to the friction-roller, substantially as described.

In testimony whereof we have hereunto set our hands.

JOHN H. SLACK.  
WATKIN W. RILEY.

Witnesses:

OLIVER B. KAISER,  
LUISE BECK.