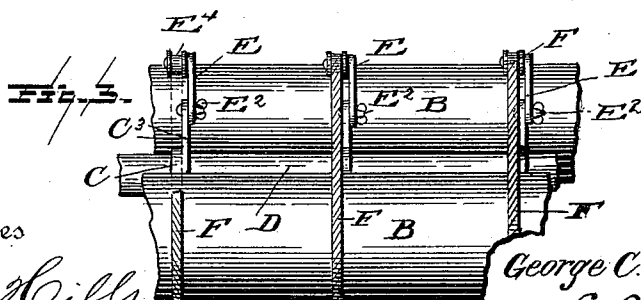
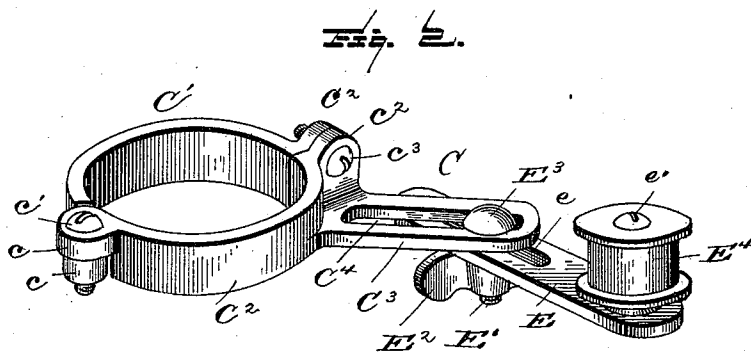
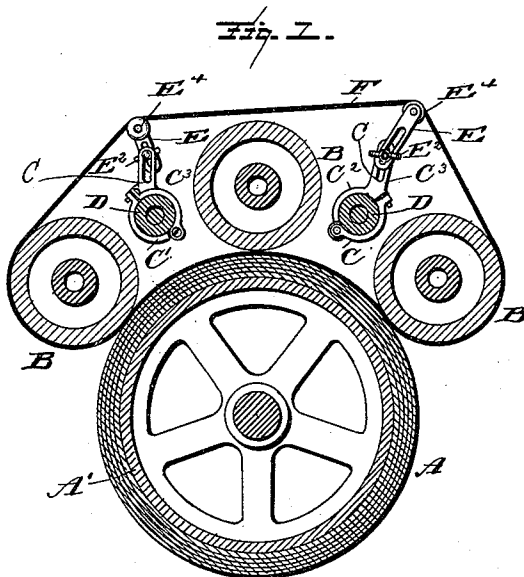


(No Model.)

G. C. ROBERTS.
TAPE FEED FOR MANGLES.

No. 436,265.

Patented Sept. 9, 1890.



Witnesses

L. C. Hills.

E. A. Bond

Inventor:

George C. Roberts,

E B Stocking
Atty.

UNITED STATES PATENT OFFICE.

GEORGE C. ROBERTS, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE TROY
LAUNDRY MACHINERY COMPANY, LIMITED, OF TROY, NEW YORK.

TAPE-FEED FOR MANGLES.

SPECIFICATION forming part of Letters Patent No. 436,265, dated September 9, 1890.

Application filed January 8, 1890. Serial No. 336,263. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. ROBERTS, a citizen of the United States, residing at Chicago, in the county of Cook, State of Illinois, have invented certain new and useful Improvements in Tape-Feeds for Mangles, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in tape-feeds for mangles; and it has for its object, among others, to provide an improved tape-supporting bracket capable of adjustment in all directions and designed for use in connection with the heated ironing-rolls and the clothed roll of a mangle.

Other objects and advantages of the invention will appear in the following description, and the novel features thereof will be particularly pointed out in the claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification, and in which—

Figure 1 is a vertical section through the clothed roller and heating-rolls, showing the application of my tape-feed in connection with the same. Fig. 2 is an enlarged perspective view of the bracket and its pulley detached. Fig. 3 is a face view of a portion of the machine, showing a plurality of tapes.

Like letters of reference refer to like parts in all the views of the drawings.

Referring now to the details of the drawings by letter, A designates the clothed roll, of any known construction, carried by the shaft A', and B designates the heated or ironing rolls, of known construction, and in the present instance shown as being three in number, arranged in the form of a triangle—that is, one upon the top of the clothed roll, with its axis in the same vertical plane as the axis of the said clothed roll, and the other two arranged one upon each side thereof and upon a plane above the axis of the clothed roll; but the central roller may sometimes be omitted without departing from the spirit of the invention.

C designates my improved bracket, which consists of the two semicircular portions C', each provided with an ear c, constructed to form a rule-joint, the two parts being connected by means of the screws or other analogous connecting device c', passed through said ears c. The free ends of these semicircular portions C' C' are provided with ears c², through which passes a screw or other analogous device c³, for the purpose of clamping the same around a shaft or rod, as D. Formed integral with and extending angularly from one of these semicircular portions, as C², there extends an arm C³, slotted, as at C⁴.

E is an arm slotted longitudinally, as at e, through which slot and through the slot in the arm C³ passes a thumb-screw E', having a suitable thumb-nut E² and an enlarged head E³, flat upon its under side to bear upon the outer face of the arm C³. The outer end of the arm E is provided with a projection or arm e', extending at right angles thereto, and upon which is loosely journaled the flanged pulley or roller E⁴ for the tape. In practice I arrange these brackets, as illustrated in Fig. 1, one upon each side of the central roller and between the same and the outer roller.

F is the tape, in the form of an endless band, passed around the two lower ironing-rollers, over the upper surface of the lower clothed roller, and over the pulleys E⁴ on the tape-brackets.

The arms E of the tape-brackets are adjusted so that the upper surface or portion of the tape will be elevated from contact with the upper roll. The manner of connecting the arms provides for all the adjustments necessary.

Motion is imparted to the rolls and tapes in any well-known manner.

It is of course understood that there are a series of tapes provided on each machine, the number depending upon the length of these several rolls, and that such tapes are employed instead of endless aprons. There will, therefore, be a similar series of tape-supporting brackets, one or more for each tape employed. Each tape is liable to stretch more or less than other tapes in the series, and therefore

provision must be made for the independent adjustment of each tape. This is done by means of the arrangement, location, and construction of the several tape-supporting brackets. The advantages resulting from the employment of tapes instead of aprons are that they collect and transfer to the goods which are passed through the machine less dust and dirt and leave exposed to view almost the entire surface of one side of the goods, whereby the condition of the goods when being ironed is in full view, and these advantages and functions are secured in addition to the ordinary function of an endless apron, which is to keep the goods in contact with a clothed or an ironing roller and to prevent said goods from being wound upon said rollers.

What I claim as new is—

1. The combination, with the clothed and ironing rolls, of the tape-supporting brackets arranged above the clothed roll between the ironing-rolls and each provided with an adjustable portion carrying rollers, and the tapes

passed over said rollers and between the clothed and ironing rolls, as set forth. 25

2. A tape-supporting bracket consisting of two substantially semicircular portions hinged together, and one of said portions formed with a lateral arm slotted longitudinally, and a longitudinally-slotted roller-supporting arm adjustably connected with the lateral arm, substantially as specified. 30

3. The tape-supporting bracket consisting of two substantially semicircular portions hinged together and formed opposite their hinge with ears, and one with a longitudinally-slotted lateral arm, and a roller-supporting arm slotted longitudinally and a thumb-screw passed through the slots of the two arms, substantially as and for the purpose specified. 35 40

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE C. ROBERTS.

Witnesses:

ALLEN CONKLING,
F. G. BUSH.