

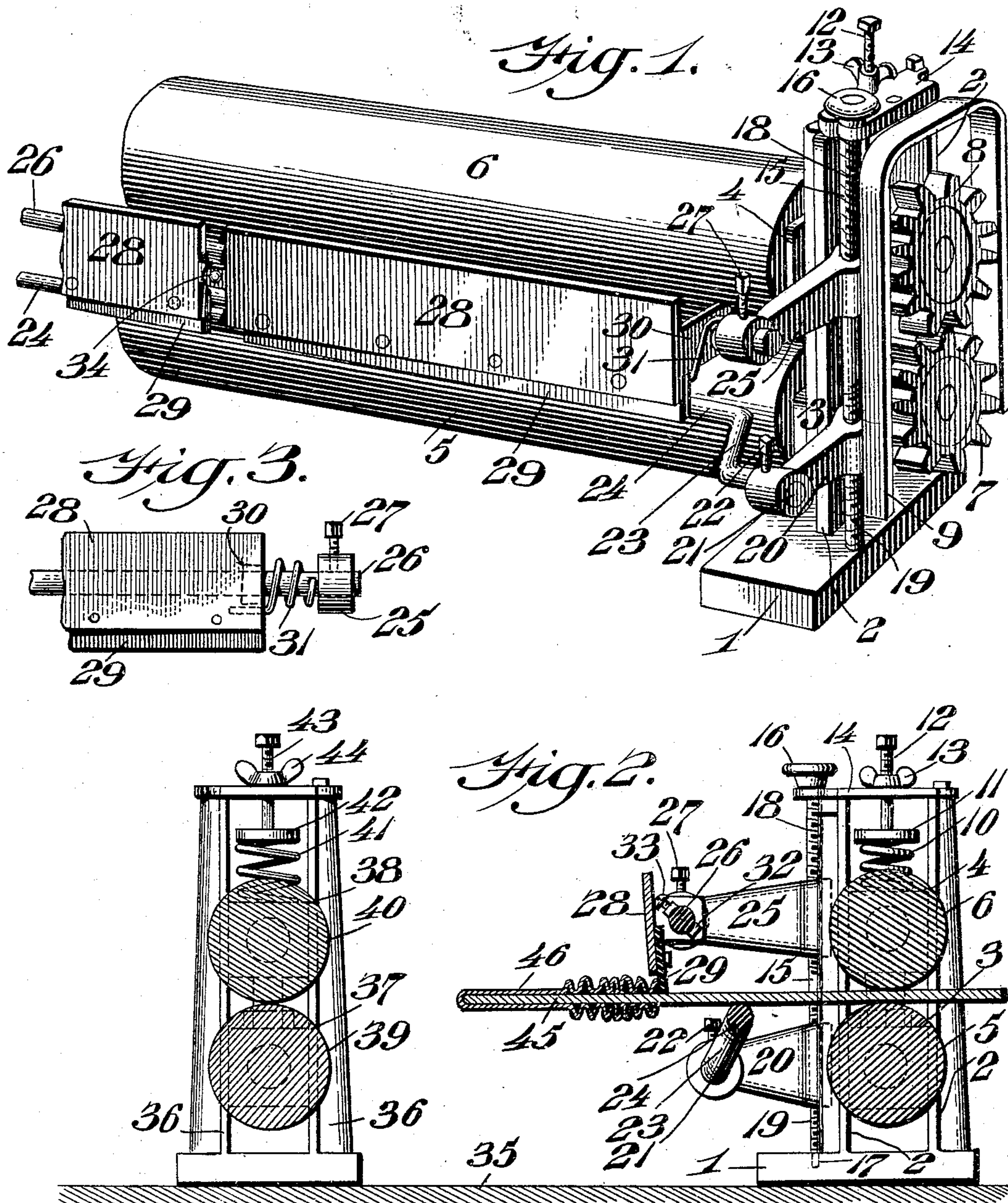
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STRIPPING DEVICE FOR SINGEING MACHINES.

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945,630.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, GEORGE W. STEVENSON, a citizen of the United States, residing at Reading, county of Berks, State of Pennsylvania, have invented a new and useful Stripping Device for Singeing-Machines, of which the following is a specification.

My present invention relates to a stripping device for singeing machines and consists of a novel construction of stripping mechanism whereby the articles which are being singed are removed from the article supporting forms or boards in an accurate and reliable manner without injury either to the boards or the articles which are being stripped.

It has heretofore been proposed to feed the boards with the toe end first and in such cases the toe end loses its shape by being pounded and cracked out of shape, thereby rendering the articles on the board liable to injury.

In my present construction, I have devised a novel mechanism whereby the top end of the board is first fed through the machine and the liability of danger to the toe end of the boards and to the article being stripped is eliminated.

To the above ends my invention consists broadly of a stripping member adjustably supported, means for positively maintaining the board against said member and mechanism for adjusting the various parts of the device according to the conditions and requirements met with in the practical operation of devices of this character.

It further consists of other novel features of construction, all as will be hereinafter fully set forth.

For the purpose of illustrating my invention, I have shown in the accompanying drawing one form thereof, since this embodiment has been found in practice to give satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein set forth.

Figure 1 represents a perspective view of a portion of a stripping device embodying my invention. Fig. 2 represents a sectional elevation showing the stripping device and one set of feeding rolls in alinement there-

with. Fig. 3 represents a side elevation of a portion of the stripping mechanism.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings, in a pending application filed by me on December 17th, 1907, Serial No. 406,869, I have described and claimed a novel construction of singeing machine in conjunction with which my present invention would preferably be employed, although it is to be understood that the construction shown in the present application is adapted to be used in conjunction with any of the usual or conventional types of singeing machines now in use.

1 designates a base on which are mounted the standards or supports 2 which form guides for the journal boxes 3 and 4 in which are mounted the rolls 5 and 6 respectively. The lower roll 5 has secured thereto a gear 7 which meshes with a gear 8 secured to the roll 6, it being understood that said gears are driven by a suitable chain which drives the feeding rolls of the singeing machine and in the present instance, I have shown the gears 7 and 8 as having a guard 9 extending therearound.

10 designates a spring interposed between the upper journal box 4 and the plate 11, which latter is carried by a rod 12 provided with a locking nut 13 in order to lock the rod 12 in its adjusted position, it being noted that said rod 12 has threaded engagement with the plate 14, which latter is carried by the standards 2 in any desired manner. The spring 10 is maintained in place owing to the manner in which the coil is made, or if desired the journal box 4 may have suitable lugs or projections thereon. The plate 14 has an extension in which is rotatably mounted a rod 15 provided with an actuating handle 16, the lower end of said rod being journaled in the base 1, as indicated at 17. The rod 15 is provided with oppositely directed threads and, in the present instance, has a right-hand thread 18 near its upper end and a left-hand thread 19 near its lower end.

20 designates brackets or arms with which the threaded portion 19 of the adjusting rod 15 engages.

21 designates a rod or bar which is rotatably mounted in the brackets 20 and adjusted by means of the set screws 22 whereby

said bar may be fixed in any desired position. The bar 21 is deflected outwardly, as indicated at 23, and then extends laterally, as indicated at 24, the purpose of which will hereinafter appear.

25 designates brackets or arms with which the threaded portion 18 of the adjusting rod 15 is engaged, said brackets or arms 25 having adjustably mounted therein a rod or shaft 26 which is maintained in its adjusted position with respect to said brackets or arms 25 by means of set screws 27.

28 designates a stripping bar or blade to which is secured in any suitable manner a cushion 29 which may be composed of leather, rubber or any other suitable material, it being noted that said bar or stripping member 28 is provided with an arm 30 which is loosely mounted on the shaft 26.

31 designates a spring one end of which is secured to the shaft 26, said spring being then coiled around said shaft and engaging the underside of the arm 30 whereby the stripping blade 28 and its adjuncts are normally maintained in their uppermost position.

The shaft 26 has secured thereto in any suitable manner a threaded member 32 with which a set screw 33 is engaged, said set screw serving as a stop for the stripping blade 28.

In my present invention, I employ two stripping members 28, as seen in Fig. 1, and if desired these may be adjustably secured together by means of a suitable fastening device 34, although it is to be understood that these blades may be disconnected from each other if desired and since this second blade is constructed in a similar manner to that shown in the right-hand part of Fig. 1, I have deemed it unnecessary to describe in detail such second stripping bar.

Referring now to Fig. 2, I have shown in this figure a bed 35 of the singeing machine on which the stripping base 1 is mounted and I have in addition shown another set of feeding rolls.

36 designates standards in which the upper and lower journals 37 and 38 respectively are mounted.

39 and 40 designate feeding rolls mounted in the journals 37 and 38 respectively, the upper of said journals having abutting thereagainst the spring 41 which also abuts against a plate 42 to which is secured a rod 43 having threaded engagement with the plate supported by the standards 36, seen in Fig. 2, said rod being provided with a lock nut 44.

45 designates a board which is being fed through the machine and 46 designates a stocking or other article thereon which is being automatically stripped from the board.

The operation of my novel construction of

stripping device will now be readily apparent and is as follows: It will be understood that the boards on which the stockings or other articles are supported are passed through the singeing machine with the top end first and are fed to the rolls 39 and 40, seen in Fig. 2, and as the boards pass from the feeding rolls 39 and 40 they will be received by the feeding rolls 5 and 6 of the stripping mechanism and be still further advanced and passed out of the machine. As the board passes beneath the stripping member 28 the cushion 29 thereon will engage the board and cause the articles to be automatically removed therefrom as the board is fed between the rolls 5 and 6, as will be readily apparent from Fig. 2. Owing to the employment of the presser member 24 which is so adjusted that the board being fed will be positively pressed against the cushion 29, said cushion 29 will always engage with the articles supported on the board so that said articles will be readily removed without injury to the board or to the articles themselves.

It will be apparent from Fig. 2 that the upper set of rolls will adjust themselves to any desired thickness of board. It will be further apparent that the cushioned stripper will remove the hose or other article from the board without injury.

I wish to call special attention to the novel manner in which the brackets 20 and 25 may be adjusted with respect to each other. By actuating the handle 16 the members 20 and 25 may be readily and quickly adjusted with respect to each other as desired. The height of the presser member 21 may be adjusted as desired by means of the set screws 22. The spring pressed stripping member 28 may also be adjusted by means of the set screw 33 so that the strength of the engagement of the cushion 29 with the board 45 may be regulated as desired.

It will now be apparent that I have devised a novel and useful construction of stripping device for singeing machines which embodies the features of advantage enumerated as desirable in the statement of invention and the above description and while I have in the present instance shown and described the preferred embodiment thereof which has been found in practice to give satisfactory and reliable results it is to be understood that the same is susceptible of modification in various particulars without departing from the spirit and scope of the invention or sacrificing any of its advantages.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a singeing machine, the combination with feeding mechanism, of a stripping blade movably supported, a presser member,

and means for simultaneously adjusting said stripping member and said presser member.

2. In a stripping device for singeing machines, the combination with feeding mechanism for the article supporting forms, of a stripping member movably supported, a spring for maintaining said member in normal position, an adjustable stop for said member, and means for effecting the vertical adjustment of said member.

3. In a stripping device for singeing machines, the combination with a set of feeding rolls, of a rod located in proximity thereto, a bracket having threaded engagement with said rod, a shaft adjustably carried by said bracket, a stripping member mounted on said shaft, a spring engaging said shaft and said member for maintaining the latter in normal position, and means for limiting the movement of said member.

4. In a stripping device for singeing machines, the combination with feeding rolls, of a rod rotatably mounted in proximity thereto and provided with oppositely directed threads on its upper and lower portions, brackets mounted on said portions, a presser member adjustably mounted in one of said brackets, a shaft adjustably mounted in the other of said brackets, a stripping member loosely mounted on said shaft, yielding means for maintaining said stripping member in normal position, and means for limiting the movement of said stripping member.

5. In a stripping device for singeing machines, the combination with feeding rolls for the article supporting forms, of upper and lower brackets supported in proximity to said rolls, means for adjusting the relative position of said brackets with respect to each other, a presser member adjustably carried by one of said brackets and adapted to engage the forms, a shaft carried by the other of said brackets, stripping members loosely mounted on said shaft, a cushion carried by said members adapted to remove articles from said forms, yielding means for maintaining said members in normal position, and means for limiting the movement of said stripping members.

6. In a stripping device for singeing machines, the combination with feeding rolls for the article supporting forms, of a rod rotatably mounted in proximity thereto, a bracket having threaded engagement with said rod, a shaft mounted in said bracket, a stripping member loosely mounted on said

shaft, a threaded member carried by said shaft, a set screw engaging said threaded member and against which said stripping member abuts, a cushion secured to said stripping member, yielding means for normally maintaining said stripping member against said set screw, and a manually actuated handle for said adjusting rod.

7. In a stripping device for singeing machines, the combination with a base, of standards carried thereby, upper and lower journal bases mounted between said standards, upper and lower feeding rolls mounted in said journals, a spring engaging said upper journal boxes, means for adjusting the compression of said spring, a bracket adjustably carried in proximity to one of said rolls, a shaft mounted in said bracket, a stripping member loosely mounted on said shaft, an adjustable stop for said member and carried by said shaft, and yielding means for normally maintaining said member against said stop.

8. In a stripping device for singeing machines, the combination with feeding mechanism, of a movably supported stripping member, means for adjusting the distance of said member from the article supporting forms passing in proximity thereto, a stop for said member, yielding means for normally maintaining said member against said stop, and mechanism for maintaining the article supporting form in positive engagement with said stripping member.

9. In a stripping device for singeing machines, the combination with feeding mechanism, of a movably supported stripping member, means for adjusting the distance of said member from the article supporting forms passing in proximity thereto, an adjustable stop for said member, yielding means for normally maintaining said member against said stop, and mechanism for maintaining the article supporting form in positive engagement with said stripping member.

10. In a singeing machine, the combination with feeding mechanism, of a stripping blade movably supported, a presser member, and means for adjusting said stripping blade and presser member.

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