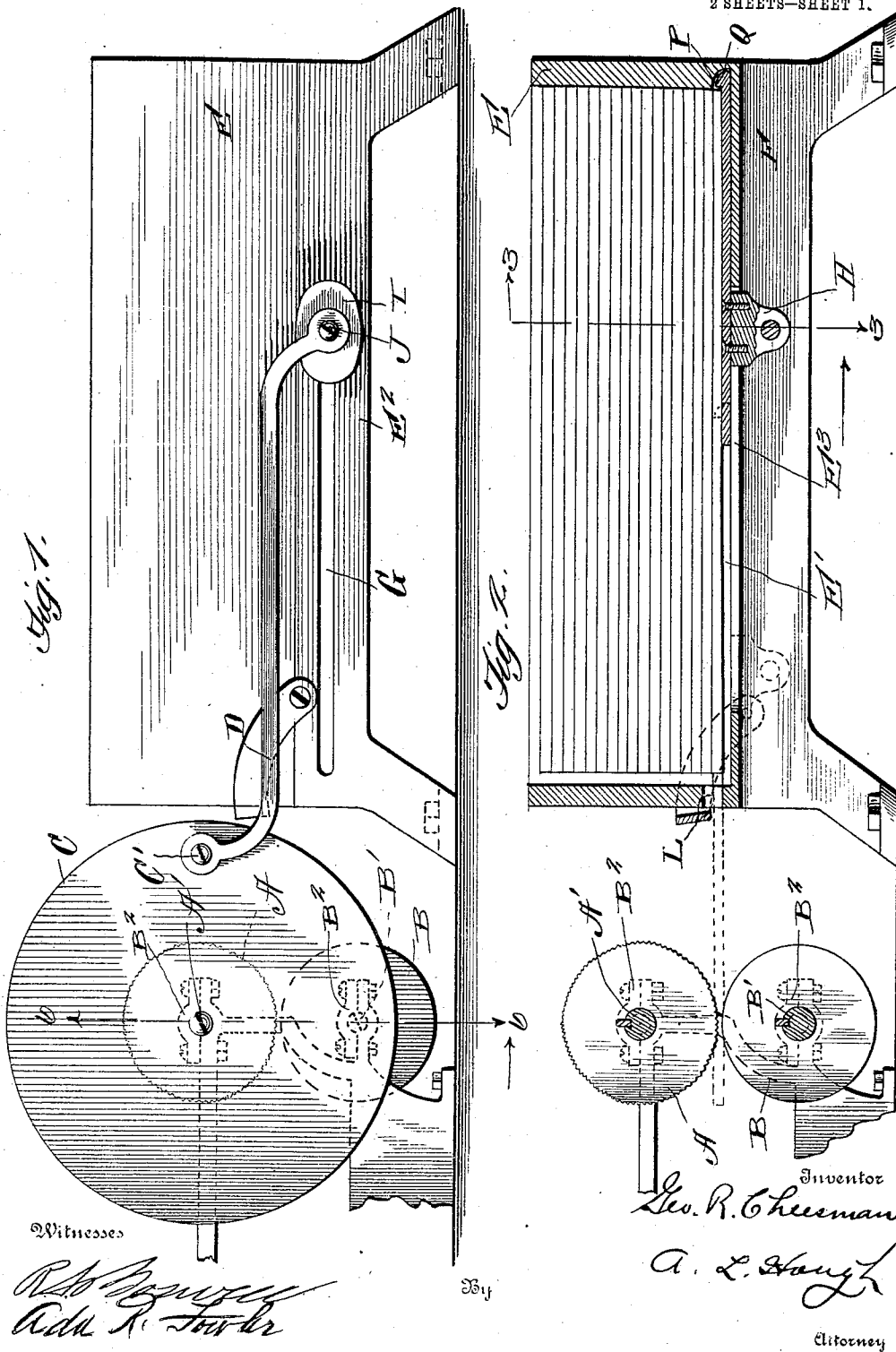


G. R. CHEESMAN.  
 APPARATUS FOR FEEDING SOLES TO CEMENTING MACHINES.  
 APPLICATION FILED DEC. 27, 1907.

898,721.

Patented Sept. 15, 1908.

2 SHEETS—SHEET 1.

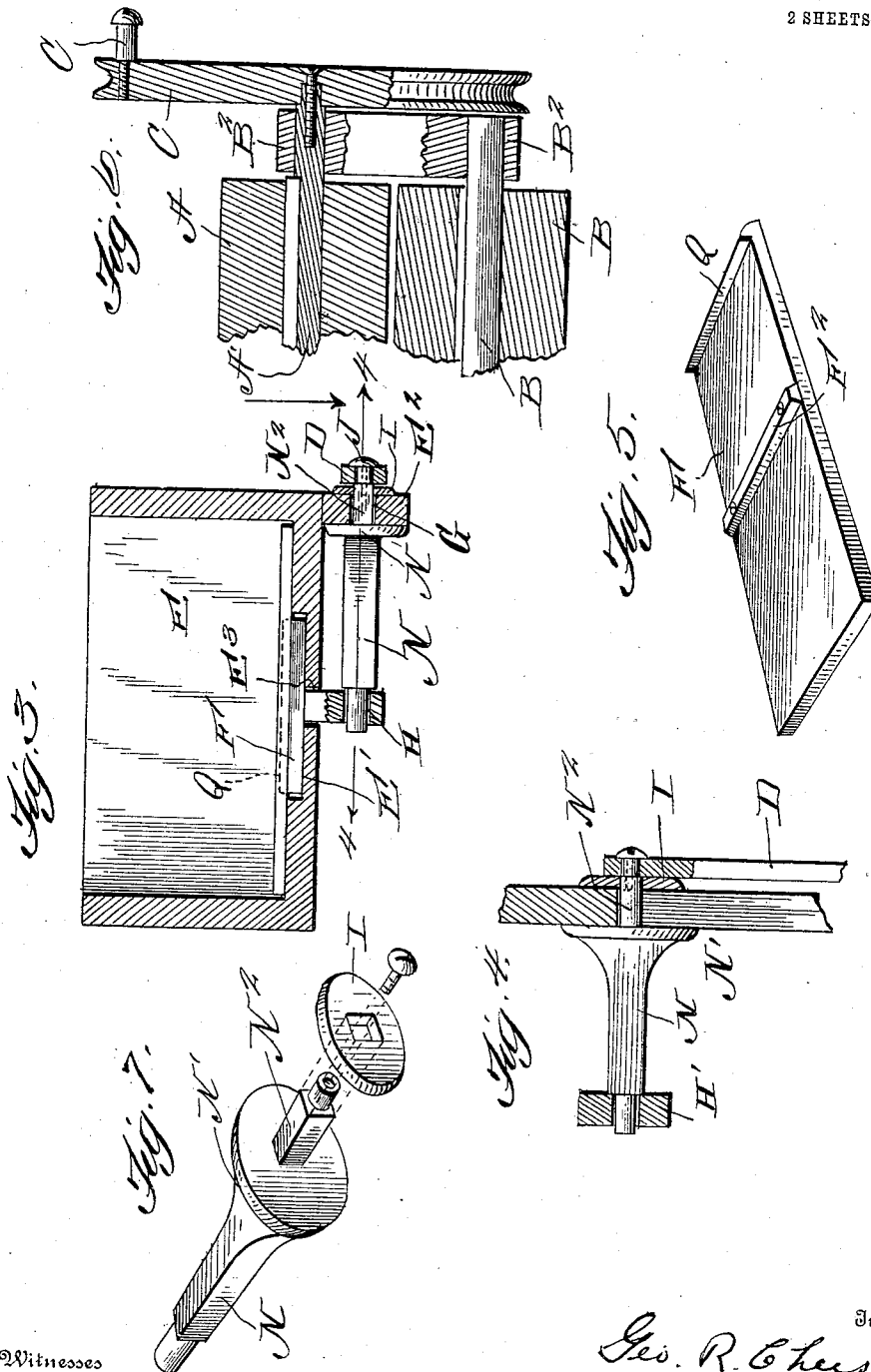


G. R. CHEESMAN.  
 APPARATUS FOR FEEDING SOLES TO CEMENTING MACHINES.  
 APPLICATION FILED DEC. 27, 1907.

898,721.

Patented Sept. 15, 1908.

2 SHEETS—SHEET 2.



Witnesses

*R. H. [Signature]*  
*Ada R. Fowler*

By

Inventor  
*Geo. R. Cheesman*

*A. L. [Signature]*  
 Attorney

# UNITED STATES PATENT OFFICE.

GEORGE R. CHEESMAN, OF AUBURN, NEW YORK, ASSIGNOR TO DUNN AND McCARTHY,  
OF AUBURN, NEW YORK, A CORPORATION.

## APPARATUS FOR FEEDING SOLES TO CEMENTING-MACHINES.

No. 898,721.

Specification of Letters Patent.

Patented Sept. 15, 1908.

Application filed December 27, 1907. Serial No. 408,288.

*To all whom it may concern:*

Be it known that I, GEORGE R. CHEESMAN, a citizen of the United States, residing at Auburn, in the county of Cayuga and State of New York, have invented certain new and useful Improvements in Apparatus for Feeding Soles to Cementing-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in self-feeding apparatus for sole-cementing machines, the object in view being to generally improve upon and render more efficient this type of apparatus and comprises means whereby finished soles may be fed to the cementing machine automatically without marring or staining the finished surfaces.

The invention comprises various details of construction and combinations and arrangements of parts as will be hereinafter fully described and then specifically defined in the appended claims.

I illustrate my invention in the accompanying drawings, in which:—

Figure 1 is a side elevation of the apparatus. Fig. 2 is a vertical sectional view longitudinally through the reciprocating carriage and receptacle containing a pile of finished soles to be cemented. Fig. 3 is a cross sectional view on line 3—3 of Fig. 2, looking in the direction of the arrow. Fig. 4 is a sectional view on line 4—4 of Fig. 3. Fig. 5 is an enlarged detail view of the slide. Fig. 6 is a sectional view on line 6—6 of Fig. 1. Fig. 7 is a detail view of a connecting means between the pitman and slide of the apparatus.

Reference now being had to the details of the drawings by letter, A and B designate two rollers between which the soles are adapted to be fed for cementing, and said rollers are mounted upon the shafts A' and B' respectively, which shafts are journaled in suitable boxings B<sup>2</sup>, as shown clearly in Figs. 1 and 2 of the drawings. Fixed to the shaft A' is a pitman operating wheel C having a stud pin C' mounted eccentrically thereon and to which pin a pitman D is

pivotally connected, as shown in Fig. 1 of the drawings.

E designates a hopper or receptacle in which a pile of finished soles to be cemented are deposited, one upon another as shown in Fig. 2 of the drawings. The bottom of said hopper has a longitudinal recess E' formed therein which is shown in the sectional view in Fig. 3 of the drawings to receive a sole feeding slide F, an enlarged detail of which is shown in Fig. 5 of the drawings, the upper surface of the slide being flush with the bottom of the hopper upon either side of the recess therein, so as to allow the lower sole of the pile to rest flat upon said slide and bottom of the hopper.

Referring to Figs. 1 and 3 of the drawings, it will be noted that a flange E<sup>2</sup> projects below the bottom of the hopper upon one side thereof and said flange is provided with an elongated slot G. Fixed to and projecting below the slide F is a block H, said block extending through an elongated slot E<sup>3</sup> formed through the bottom wall of said recess. N designates a horizontally disposed bar having an elongated flaring portion N' shown clearly in Fig. 9 of the drawings. Said bar N has a contracted portion N<sup>2</sup> which projects through and is adapted to have a play in the longitudinal slot G, and I designates a block which is apertured and is mounted upon the portion of the bar N which passes through said slot and serves to guide the bar as it reciprocates back and forth in said slot. J designates a stud pin which is mounted in the end of the bar N and serves as a pivot for one end of the pitman. Upon reference to Fig. 3 of the drawings, it will be noted that one end of said slide has a beading or raised portion Q of hook shape and adapted to engage the end of the under sole of the pile in order to feed the sole forward through the slot L formed in the end of the hopper, said slot L being in a plane coincident with a horizontally disposed plane intermediate the two rollers A and B, and it will also be noted that one end of the hopper near its lower edge is rabbeted out as at P to allow said beading or hooked end to move back therein to free the pile of soles in order that they may successively drop down upon the upper surface of the slide and be in position to be singly fed forward as the slide is reciprocated.

In order to feed soles of different sizes, a

cleat, designated in the drawings by letter F<sup>2</sup> and shown clearly in Fig. 5 of the drawings, is provided. This cleat may be fastened on by screws or any other suitable fastening means and a slide not shown may be slipped into grooves in the opposite walls of the hopper to form an inclined wall to the hopper when utilized for feeding short soles such as for children's sizes.

10 The operation of my invention will be readily understood and is as follows:—It is my purpose to place within the hopper a pile of finished soles with the finished sides of the soles down. When the reciprocating  
15 slide is employed, as shown in Figs. 1 and 2 of the drawings, each time the slide is driven forward its hooked end will feed forward the undermost sole of the pile to a position to be caught and fed between the two rollers A and B. Upon the return movement of the slide which is driven by the pitman having connection with the wheel C upon the shaft A', the hooked end of the slide as it moves within the rabbeted portion B, shown in  
25 Fig. 1 of the drawings, will allow the pile of superimposed soles within the hopper to cause the lower sole of the pile to assume a position to be fed forward by the slide in its next forward movement. From the foregoing, it will be noted that, by the reciprocating movement of the slide, the various soles will be successively fed forward automatically until the entire number of soles in the hopper has been fed to the cementing  
35 machine.

From the foregoing, it will be noted that, by the provision of the apparatus shown and described, a simple and efficient means is afforded for automatically feeding uniformly  
40 the unfinished soles for shoes to a cementing machine and by which apparatus any staining of the finished surfaces is prevented, and materially reducing the cost incident to the manufacture of the shoe.

45 What I claim to be new is:—

1. A self feeding device for sole cementing machines comprising a hopper, friction

rollers between which soles are fed from the hopper, one of the side walls of the hopper having an extension projecting from the  
50 bottom thereof and provided with an elongated slot, a bar mounted with one end in said slot, means for guiding the bar as it is moved back and forth in the slot, a pitman connected at one end to said bar and its  
55 other end connected to one of the friction rollers, the bottom of the hopper having a recess, a slide movably held in said recess, an apertured lug projecting from the bottom of said slide through a slot in the bottom of the  
60 hopper and engaged by the inner end of said bar, the rear end of said slide having a shoulder projecting above its upper surface, the outer edge of said shoulder being curved and adapted to seat in a rabbeted portion in  
65 the end wall of the hopper, as set forth.

2. A self feeding device for sole cementing machines comprising a hopper, friction rollers between which soles are fed from the hopper, one of the side walls of the hopper  
70 having an extension projecting from the bottom thereof and provided with an elongated slot, a bar mounted with one end in said slot, said bar provided with an integral flange designed to bear against the inner sur-  
75 face of the extension of said wall of the hopper, a disk fitted upon the projecting end of said bar, a pitman retaining said disk in place upon said bar, and pivotally connected to the latter and adapted to be driven by  
80 connections with one of said rollers, the bottom of the hopper being recessed, a slide seated in said recess and having a shoulder at its inner end, an apertured lug projecting from said slide through a slot in the bottom  
85 of the hopper, the inner end of said bar engaging the aperture in said lug, as set forth.

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

GEORGE R. CHEESMAN.

Witnesses:

HAMILTON CREQUE,  
W. L. HANKINS.