

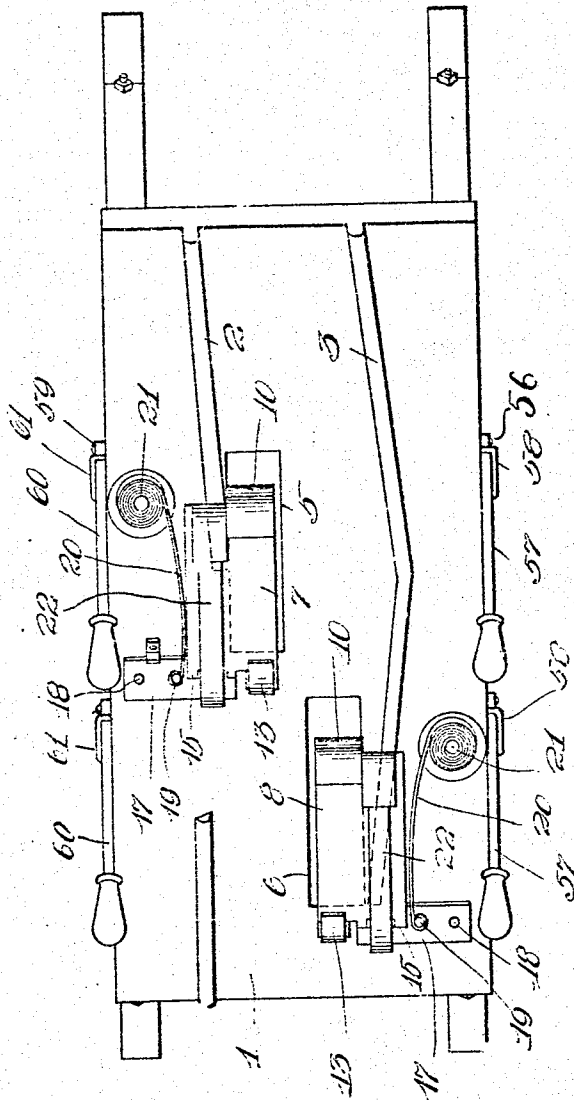
J. C. C. SCHEER.
 BLACKING APPLYING MACHINE FOR BOOTS AND SHOES.
 APPLICATION FILED SEPT. 23, 1910.

989,928.

Patented Apr. 18, 1911.

4 SHEETS—SHEET 1.

Fig. 1.



WITNESSES

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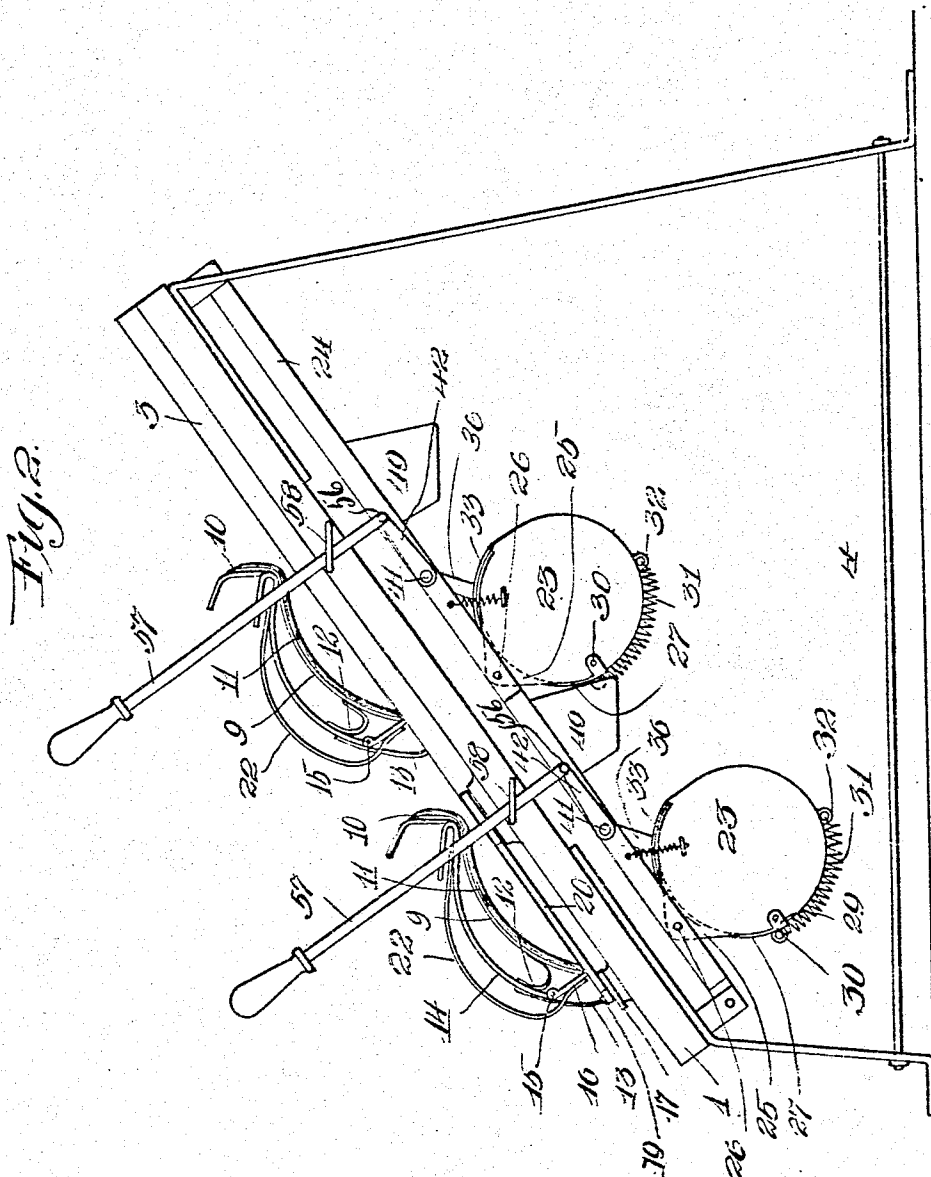
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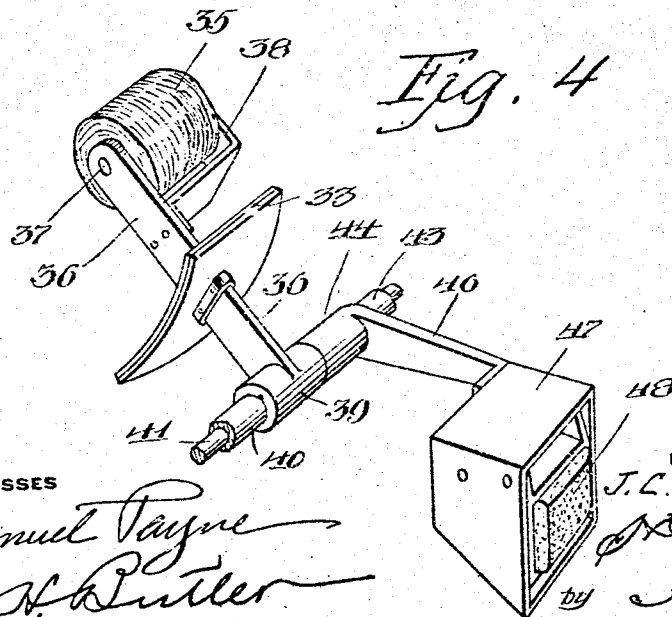
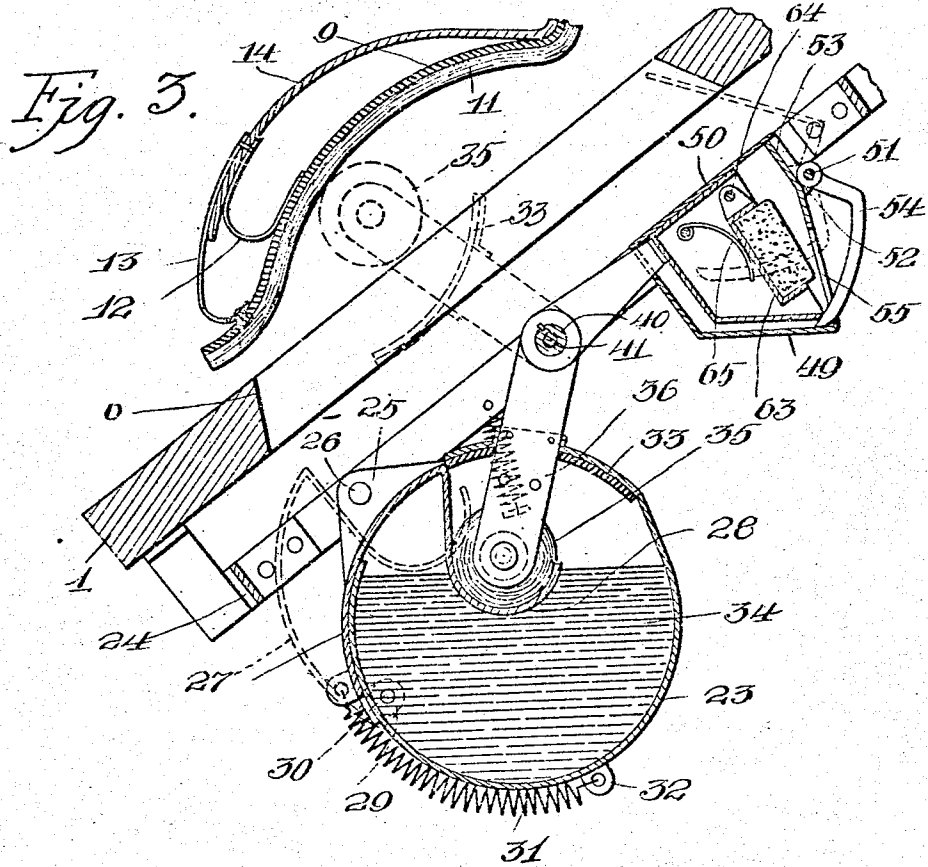
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4 SHEETS-SHEET 3.



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4 SHEETS—SHEET 4.

Fig. 5.

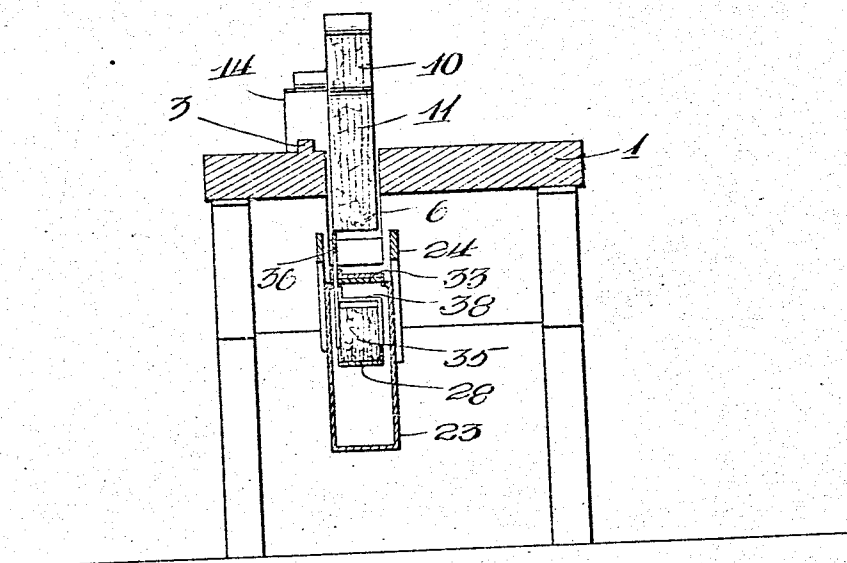


Fig. 6.

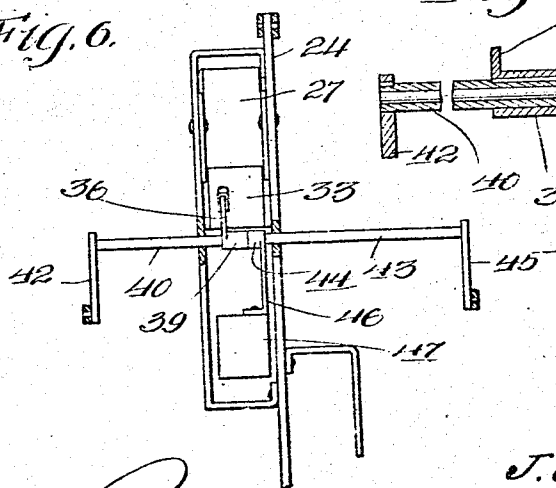
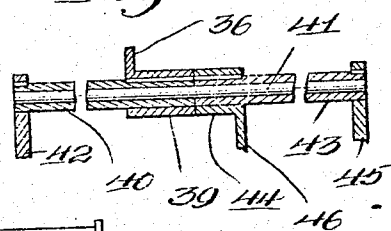


Fig. 7.



WITNESSES

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UNITED STATES PATENT OFFICE.

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BLACKING-APPLYING MACHINE FOR BOOTS AND SHOES.

989,928.

Specification of Letters Patent. Patented Apr. 18, 1911.

Application filed September 23, 1910. Serial No. 583,363.

To all whom it may concern:

Be it known that I, JOHN C. C. SCHEER, a citizen of the United States of America, residing at Beaver Falls, in the county of Beaver and State of Pennsylvania, have invented certain new and useful Improvements in Blacking-Appling Machines for Boots and Shoes, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to a blacking applying machine for boots and shoes, and has for its object to provide a machine of such class, in a manner as hereinafter set forth, for thoroughly applying shoe polish to foot-gear, after which the shoe can either be polished by a machine or by hand.

A further object of the invention is to provide a machine of the class referred to, with means in a manner as hereinafter set forth, for first applying a cleaning liquid to the shoe and then polish or paste, the cleaning liquid, as well as the polish, being thoroughly applied to the shoe while the wearer of the shoe draws the same through the machine.

Further objects of the invention are to provide a blacking applying machine, which is comparatively simple in its construction and arrangement, strong, durable, efficient in its use, conveniently operated, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists of the novel construction, combination, and arrangement of parts, as hereinafter more specifically described and illustrated in the accompanying drawings, wherein is shown the preferred embodiment of the invention, but it is to be understood that changes, variations, and modifications can be resorted to which come within the scope of the claims hereunto appended.

In the drawings, wherein like reference characters denote corresponding parts throughout the several views: Figure 1 is a plan of a blacking applying machine in accordance with this invention. Fig. 2 is a side elevation. Fig. 3 is a longitudinal section broken away. Fig. 4 is a perspective view illustrating the means for supplying the cleaning liquid and polish to one of the daubers. Fig. 5 is a cross sectional view of the machine. Fig. 6 is a sectional detail, and Fig. 7 is a longitudinal sectional

view of a means for operating the cleansing liquid and paste supply means for a dauber.

Referring to the drawings in detail, 1 denotes an inclined platform provided with longitudinally extending ribs 2, 3, for guiding the shoe as it is carried across the platform.

4 denotes a support for the platform 1, the latter having a longitudinally extending slot 5 projecting from the center toward the upper end of the platform. Near the lower end of the platform, a longitudinally extending slot 6 is provided, the latter extends in a plane to one side of the plane to which the slot 5 extends. The slot 5 is arranged inwardly of the rib 2 and the slot 6 is arranged inwardly of the rib 3, near the lower end thereof.

Arranged in proximity to the slot 5 is a dauber 7 and positioned in proximity to the slot 6 is a dauber 8. As each of the daubers is of the same construction, but one will be described, the description of one applying to the other. Each of the daubers consists of a body portion 9, having an outwardly extending angular bend 10 at the forward end thereof. The body portion 9 and the angular bend 10 has a strip of fabric 11 secured thereto. The body portion 9 is convex in contour and is connected by the resilient elements 12, 13, to a carrier 14, which is hinged, as at 15, to a vertically disposed extension 16, of a bracket 17 pivotally connected, as at 18, to the platform 1. Connected to the bracket 17, as at 19, is one end of a spring 20, which is coiled around a post 21, carried by the platform 1; and the function of the spring 20 is to maintain the bracket 17 in the position as shown in Fig. 1, and to return said bracket to such position when shifted therefrom, the shifting being had when the shoe is passed over the platform. For retaining the carrier in a lowered position, a resilient member 22 is provided, which engages the extension 16 and the carrier 14, as clearly shown in Fig. 2.

The manner in which the daubers apply the cleansing liquid or the blacking to the shoe is as follows: The daubers are in the position as shown in Fig. 2, the shoe is passed downwardly upon the platform 1 until the heel of the shoe engages the end 10 of the dauber 7, the dauber is elevated and the fabric with the cleansing liquid or black-

ing thereon engages the upper of the shoe; on a further movement of the shoe the dauber is swung on the pivot 18 so that the fabric 11 will continue to engage the upper and apply the cleaning liquid or paste, the springs 20 and 22 tending to maintain the dauber against the shoe; on a further movement of the shoe the springs 20 and 22 will cause the dauber to extend over the front thereof and apply the cleansing medium or blacking, as the shoe clears the dauber 7 it will engage the dauber 8, so that the opposite side of the shoe will have the cleansing medium or blacking applied to the shoe. The operation of the dauber 8 is the same as that of the dauber 7, the dauber 7 operating upon one side in front of the shoe, and the dauber 8 operating upon the other side in front of the shoe. After the shoe clears the daubers, the springs return them to normal position.

When the machine is used, the shoe is first passed over the platform 1 for an application of the cleansing liquid and afterward again passed over the platform to receive the blacking and after the blacking has been applied to the shoe, the shoe is polished by a suitable machine or manually, if desired.

The mechanism for supplying the cleansing liquids and the blacking to each dauber is the same, so therefore one only will be described, as the description of one applies to the other. One of these mechanisms is arranged at one side of the machine, and the other at the other side of the machine, and in operative relation with respect to its dauber. Each of said mechanisms includes a casing 23, constituting a cleaning liquid containing reservoir, preferably cylindrical in contour and having an open top. A supporting frame 24 depends from the platform 1 and to which the casing 23 is connected through the medium of the lugs 25 and hold-fast devices 26. The open top of the casing 23 is closed by a shiftable member 27 having a curved arm 28, which extends in the casing 23 when the member 27 is moved to closed position. The member 27 is provided with a pair of lugs 29, which are pivoted, as at 30, to the end of the casing 23 and attached to the member 27 is one end of a coiled spring 31, the other end of the latter being attached, as at 32, to the casing 23. The member 27 with the exception of its arm is segment-shaped in contour and is arranged against the periphery of the casing 23. The member 27 partially closes the open top of the casing 23, the remainder of the top being closed by a shiftable segment-shaped plate 33. Within the casing 23 is arranged a body of cleaning liquid 34, the level of which extends above the lower end of the arm 28, the latter constituting a support for a supply roller 35 carried on the lower end of a crank arm 36, which extends

through and is fixedly secured to the plate 33. The supply roller 35 is arranged at one side of the inner end of the crank arm 36 and is mounted upon a spindle 37, which is journaled in the arm 36, and in an angular bracket 38, and between the bracket 38 and the arm 36 is positioned the roller 35. The crank arm 36 projects from a sleeve 39, which is carried by a hollow shaft 40 mounted upon a bearing 41. Connected to the outer end of the shaft 40 is a crank arm 42. Mounted upon the bearing 41 at one side of the shaft 40 is a hollow shaft 43 provided at its inner end with a collar 44, and at its outer end with a crank arm 45. Projecting from the collar 44 is a crank arm 46 carrying a receptacle 47 provided with blacking 48 in the form of paste.

Carried by the frame 24 is a casing 49 adapted to receive the receptacle 47 and which is closed through the medium of a cover 50 carried by a shaft 51 journaled in a bracket 52, which projects from the wall 53 of the casing 49. The shaft 51 is provided with a weighted arm 54, which retains the cover in an open position when the receptacle 47 is shifted from the casing 49; when the cover 50 is in an open position, the weighted arm extends through a slot 55 in the wall 53, so that when the receptacle 47 is moved back into the casing the arm 54 will be engaged thereby shifting the shaft 51 and moving the cover to closed position. The crank arm 42 is pivotally connected as at 56 to a vertically disposed handle 57, which extends through an inclined keeper 58. The crank arm 45 is pivotally connected, as at 59, to a handle 60, which extends through an inclined keeper 61.

It will be assumed that the dauber is to be supplied with a liquid cleaning medium. The supply is had, as follows: The handle 57 is pressed downwardly which carries the crank arm 42 therewith and rocks the shaft 40, when the shaft 40 is rocked, the crank 36 is elevated. As the crank moves out of the receptacle 33, the member 27 is forced outwardly whereby the roller 35 will be moved over the casing 23, the member 27 assuming the position shown in dotted lines in Fig. 3. By operating the handle 57, the roller 35 is brought to engage the felt or fabric 11 and by moving the handle 57 toward the upper end of the platform the roller 35 is carried across the felt or fabric 11 thereby applying the cleansing medium thereto, the position of the roller being shown in dotted lines in Fig. 3. The member 27 is maintained in open position by the spring 31. By pulling the handle in an opposite direction, the shaft 40 is rocked so as to swing the roller 35 back into the casing 23; as the roller moves toward the casing 23, it enters the arm 28 and moves the member 27 into a position to close the portion of the open top

of the casing 23. When the member 27 is in the position as shown in Fig. 3, the plate 33 closes the remaining portion of the open top of the casing 23.

5 It will be assumed that the dauber should be supplied with blacking. The handle 61 is moved downwardly, thereby rocking the shaft 44 and swinging the receptacle 47 out of the casing 49 and on a further movement
10 of the handle, the blacking is drawn across the felt or fabric 11 thereby supplying the fabric with the required amount of blacking. By pulling the handle 61 in an opposite direction, the receptacle 47 is restored to the
15 casing 49.

The blacking 48 is carried by a box 63, which is pivoted, as at 64, in the receptacle 47 and is engaged by a spring 65, which forces the box 63 outwardly so that the
20 blacking will engage the fabric or felt 11 when the receptacle is shifted out of the casing 49 to supply the dauber with blacking.

What I claim, is:

25 1. A blacking applying machine comprising a platform, a pair of spring controlled hinged daubers pivotally connected to said platform and one arranged in advance of the other and adapted to be shifted when a shoe
30 is passed over the platform whereby the daubers will apply cleansing liquid or paste to the shoe, manually operated means for supplying a cleansing liquid to the daubers, and manually operated means for applying blacking to the daubers.

35 2. A blacking applying machine comprising a platform, a pair of spring controlled hinged daubers pivotally connected to said platform and one arranged in advance of the other and adapted to be shifted when a
40 shoe is passed over the platform whereby the daubers will apply a cleansing liquid or paste to the shoe, a pair of shafts, a cleansing medium supply means connected to each of said shafts, operating means for said
45 shafts for moving said supply means in engagement with the daubers to supply a cleansing medium thereto, a pair of shafts, means connected to each of the last men-

tioned shafts for supplying blacking to daubers when the shafts are operated in one direction, and means for operating said last mentioned shafts in a direction to apply the blacking to said daubers. 60

3. A blacking applying machine comprising a platform, a pair of spring controlled hinged daubers pivotally connected with said platform and one arranged in advance of the other, and shiftable means supported from the platform and adapted when shifted to supply blacking to the daubers. 65

4. A blacking applying machine comprising a platform, a pair of spring controlled hinged daubers pivotally connected with said platform and one arranged in advance of the other, and shiftable means supported from the platform and adapted when shifted to supply a cleansing medium to said daubers. 65

5. A blacking applying machine comprising an inclined platform provided with a pair of shoe guides and further having a pair of longitudinally extending openings one arranged in advance of the other, a pair of spring controlled hinged daubers pivotally connected with said platform and arranged in operative relation with respect to said openings, and means adapted to be extended through each of said openings for supplying a cleansing medium to the daubers. 70

6. A blacking applying machine comprising an inclined platform provided with a pair of shoe guides and further having a pair of longitudinally extending openings one arranged in advance of the other, a pair of spring controlled hinged daubers pivotally connected with said platform and arranged in operative relation with respect to said openings, and means adapted to be extended through said openings for supplying blacking to said daubers. 75 80 85 90

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

JOHN C. C. SCHEER.

Witnesses:

D. F. FUNKHOUSER,
LOLA M. CRESS.