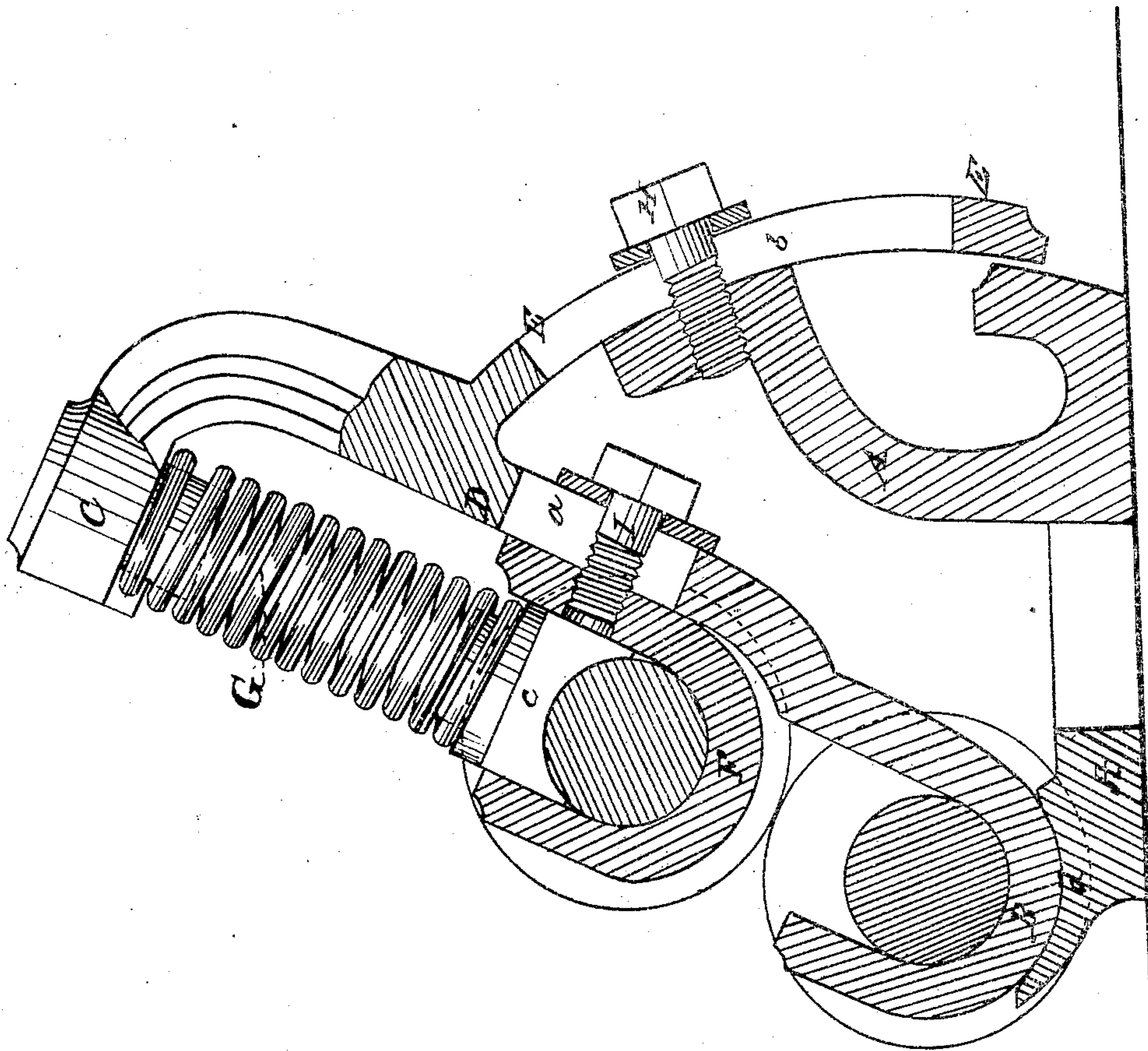


C. L. Goddard.

Impt in Wool Mach

Patented Nov. 15. 1864.

No 45,034-



Witnesses:

C. L. Topliff  
Theo. Tusch

Inventor.

Wm. C.  
Atty. for.  
C. L. Goddard

# UNITED STATES PATENT OFFICE.

C. L. GODDARD, OF NEW YORK, N. Y.

## IMPROVEMENT IN FEED-ROLL BOXES FOR WOOL-BURRING MACHINES, &c.

Specification forming part of Letters Patent No. 45,034, dated November 15, 1864.

*To all whom it may concern:*

Be it known that I, CALVIN L. GODDARD, of the city, county, and State of New York, have invented a new and useful improvement in feed-roll boxes for wool-burring machines, cotton-pickers, carding-machines, and other machines of similar character; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification, said drawings representing a vertical section of the feed-roll boxes for one side of a machine, the plane of section being perpendicular to the axis of the feed-rolls.

My invention consists in a certain novel mode of combining and arranging the upper and lower feed-roll boxes, whereby great facility is afforded for bringing the upper box nearer to or farther from the lower one, and for setting it back or forward independently of the lower one without altering its distance therefrom.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A is a base-piece intended to be bolted to one of the main side frames of the machine in such manner as to be adjustable back and forth thereon in a horizontal direction.

B C D E is a piece, the lower front part, B, of which constitutes the lower feed-roll box, and the upper part, C, of which constitutes the bearing for the spring G, which holds down the cap *c* of the upper feed-roll box, F. This box F is bolted to the flat front surface of the part D of the piece B C D E above the lower box by a screw-bolt, I, which passes through a slot, *a*, in the said part D, and which thus permits the upper box, F, to be adjusted nearer to or farther from the lower one to regulate the space between the feed-rolls and the quantity of material fed into the

machine. The back part, E, of the piece B C D E is made in the form of an arc, concentric with the axis of the lower feed-roll box, and it fits against a portion of the base-piece A, which is of corresponding form, while the bottom of the lower feed-roll box, B, fits to a concentric bearing in the said base-piece, as shown at *d*. The piece B C D E is secured to the piece A by means of a screw-bolt, H, which passes through a slot, *b*, in the part E, and thus permits the adjustment of the said piece in the direction of the arcs of circles concentric with the axis of the lower feed-roll box.

To adjust the upper feed-roll at the proper distance from the lower one, the screw-bolt I is slackened and the upper box, F, raised or lowered relatively to the lower one, B, as may be required, and then secured by screwing up the bolt I tight. To adjust the upper roll forward or back, and thus bring it nearer to or farther from the main cylinder of the machine, as may be required, the screw-bolt H is slackened and the piece B C D E then adjusted in its bearing *b* concentric with the axis of the lower feed-roll, and the upper box is thereby set forward or back without altering the distance of the upper feed-roll from the lower one, which is of great importance.

What I claim as my invention, and desire to secure by Letters Patent, is—

So combining and arranging the upper and lower feed-roll boxes that the upper one is adjustable in the arc of a circle concentric to the axis of the lower one, substantially as herein specified, for the purpose of enabling it to be set backward or forward without altering its distance therefrom.

C. L. GODDARD.

Witnesses:

M. M. LIVINGSTON,  
C. L. TOPLIFF.