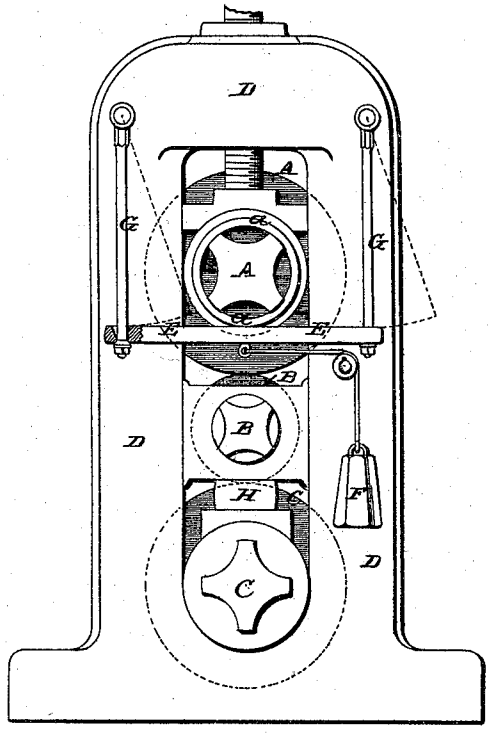
J. H. WEBSTER.

ROLLS FOR ROLLING IRON.

No. 171,454. Patented Dec. 21, 1875.



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JOSEPH H. WEBSTER, OF ST. LOUIS, MISSOURI.

IMPROVEMENT IN ROLLS FOR ROLLING IRON.

Specification forming part of Letters Patent No. **171,454**, dated December 21, 1875; application filed October 27, 1875.

To all whom it may concern:

Be it known that I, JOSEPH H. WEBSTER, of the city and county of St. Louis and State of Missouri, have invented a new and useful Improvement in Rolls for Rolling Iron, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings.

This invention relates to an improved device for allowing the rolls to gradually descend, so as to prevent the violent concussion that takes place when the upper roll falls after the passage of the bar of iron.

This invention consists of a supporting-bar, which is drawn by a weight or spring under the roll, so as to support it in its raised position, until said bar is moved endwise, so as to cause its descent by the weight and friction of the roll.

The drawing is an end view of a set of rolls with my device attached.

A is the top roll, B the center roll, and C the lower roll, supported in the ordinary manner in the end standards or frame D. Beneath the ends of the roll A are horizontal bars E, which, ordinarily, need not give any support to the roll, but are constantly held in contact with said rolls by the weights F. Instead of weights F, springs, arranged in any suitable manner, may be used. *a* is a loose collar interposed between the end of the roll A and the bar E. The bar E is supported on links G, pivoted at their upper end to the frame D. When these links hang vertically the bar is so low that the roll A is in contact with the roll B; but when the roll A is raised by the passage of the bar of iron beneath it, the weight F draws the bar endwise, as shown in dotted lines, and the side movement of the links G, on their point of oscillation, raises the bar F, so as to keep it in contact with the bottom of the roll. Then as the bar of iron leaves the rolls so that the roll A is no longer supported by it, the roll rests on the bars E at each end, and, by its weight, carries back the bar E to the position shown in full lines, and the roll A subsides easily upon the roll B, causing no injury to either. H is a spring that need not, ordinarily, give any support to the roll B. Said roll rests on the roll C, its purpose being merely to retard the falling of the roll B, after the bar has passed between it and the lower roll, and so allows it to subside onto the lower roll without injury to either.

I claim as my invention—

1. The bar E, having an inclined movement, in combination with the roll A, substantially as set forth.

2. The bars E and links G, in combination with the roll A, loose collar *a*, and weight F, substantially as set forth.

3. The bars E and links G, in combination with the roll A and weight F, substantially as set forth.

JOSEPH H. WEBSTER.

Witnesses:
SAML. KNIGHT,
ROBT. BURNS.