

(No Model.)

J. MUNTON.

MACHINE FOR SHEARING TIRE BLOOMS.

No. 363,842.

Patented May 31, 1887.

Fig. 1

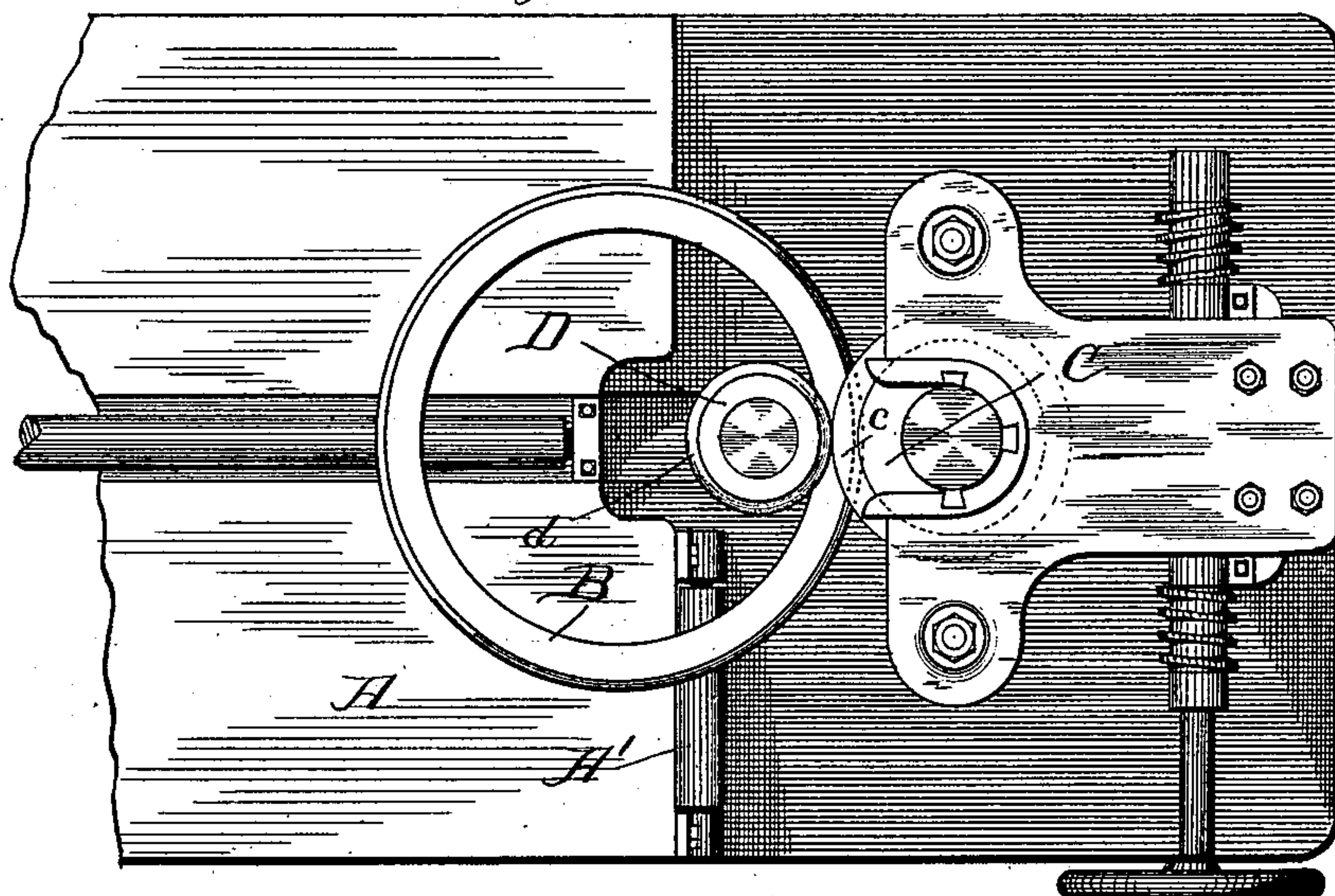
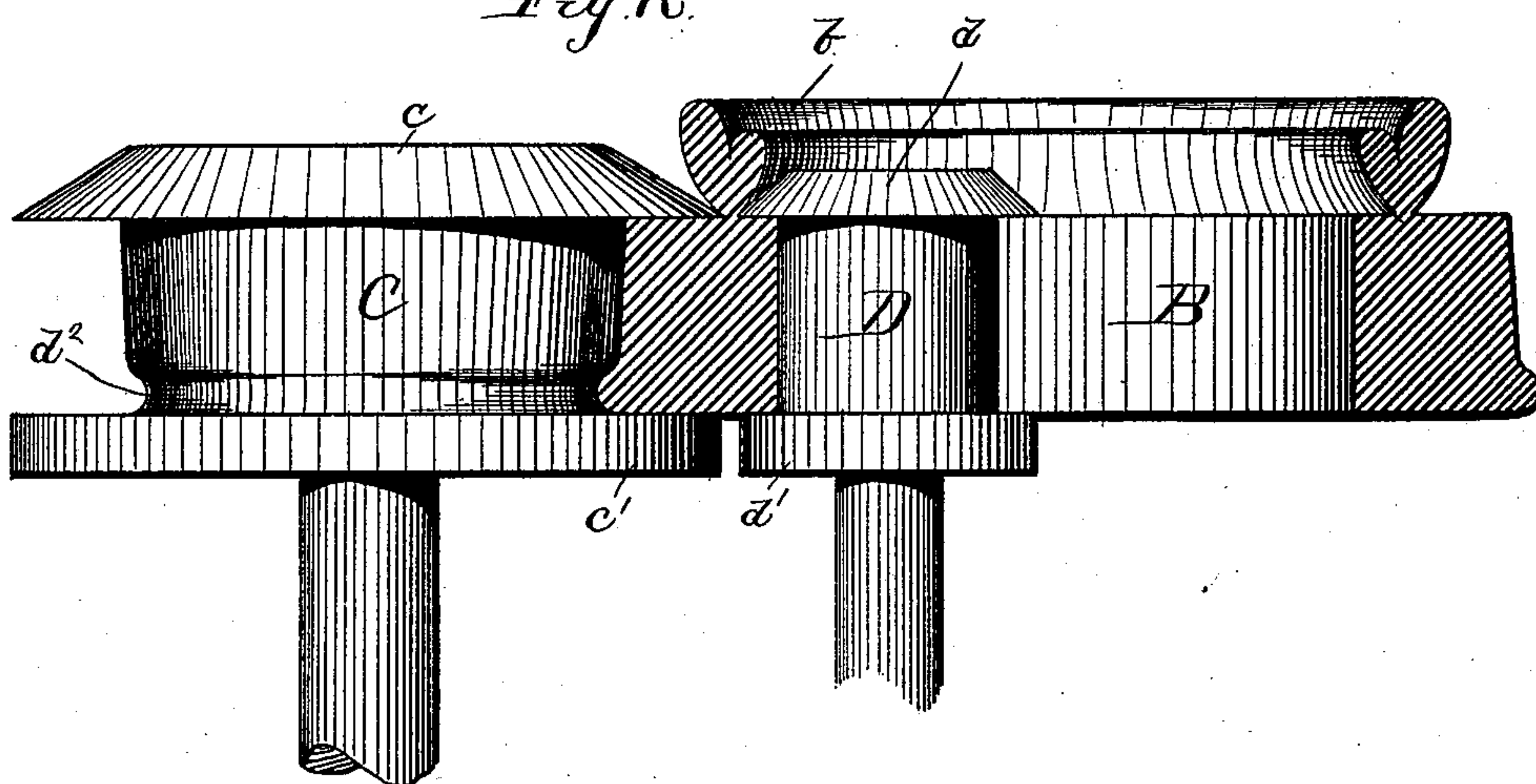


Fig. 2



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES MUNTON, OF MAYWOOD, ILLINOIS.

MACHINE FOR SHEARING TIRE-BLOOMS.

SPECIFICATION forming part of Letters Patent No. 363,842, dated May 31, 1887.

Application filed February 1, 1887. Serial No. 226,117. (No model.)

To all whom it may concern:

Be it known that I, JAMES MUNTON, a citizen of the United States, residing in Maywood, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Bloom Cutting and Rolling Machines, of which the following is a specification.

My invention relates to the manufacture of blooms by casting them of a greater thickness than required, and then cutting off an annulus at the top of the bloom to remove the imperfect portion of the bloom.

My invention consists in a bloom or tire rolling machine wherein the rolls are furnished with cutter-flanges for severing the annulus containing the sediment, blow-holes, and other imperfections which rise to the top portion of the bloom as it is cast.

It also consists in providing the rolls of such machine with an annular groove for the flange of the bloom or tire, so as to partially form, roll, and shape the same at the same time the cutters remove the imperfect top portion of the annular casting.

In the accompanying drawings, which form a part of this specification, Figure 1 is a partial plan view of a bloom or tire rolling machine embodying my invention, and Fig. 2 is an enlarged elevation of the rolls.

In the drawings, A represents the bed-plate, and A' the bed or supporting rolls for the bloom.

B represents the bloom produced from the annular casting by cutting off the imperfect top portion, *b*, therefrom.

C represents the exterior driven roll, and D the interior movable roll.

The rolls C and D are each furnished with a cutter or flange, *c d*, at their upper ends, by which the annulus *b* is severed from the top portion of the bloom. At their lower ends the rolls C D are each provided with flanges *c' d'*, which serve to support and inclose the lower edge of the bloom. The large driven roll C is also furnished with an annular groove, *d*²,

which serves to form a partial flange upon the bloom. This groove also serves to keep the bloom down or in place upon the flanges as it is rolled. The rolls C D are roughened upon their surface, as well as the upper or conical surface of the cutters *c d*. The beveled flanges or cutters *c d* are preferably cast integral with the rolls themselves. The cutter-flanges *c d* should not be made long enough to reach entirely across the face or through the bloom until after the bloom is reduced in size and increased in diameter by the rolls. The collars *c' d'* should just about equal the cutter-flanges *c d* in depth, so that as the bloom diminishes in size or thickness under the action of the rolls the cutters may come nearly or quite together and completely sever the imperfect annulus *b* from the bloom. The roughness or corrugations upon the surface of the rolls and cutter-flanges cause the bloom to drive better in the rolls.

The mechanism for driving the roll C and for setting the roll D up against the roll C and the other parts of the rolling-machine is or may be of the ordinary and well-known construction employed in tire-rolling machines, and does not need to be here described or shown in detail, as the same is well known to those skilled in the art.

I claim—

1. A tire or bloom rolling machine having a pair of rolls furnished with cutter-flanges for severing the top portion from the annular casting or bloom as it is rolled, substantially as specified.

2. In a tire-rolling machine, the rolls B and C, furnished with beveled cutter-flanges *c d* and collars *c' d'*, said roll C having also an annular groove, *c*², for the flange of the bloom or tire, substantially as specified.

JAMES MUNTON.

Witnesses:

H. M. MUNDAY,
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