(No Model.)

W. ALLDERDICE.

ROLLS FOR REDUCING AND STRAIGHTENING METAL RODS.

No. 427,288. Patented May 6, 1890.

Fig. 1.

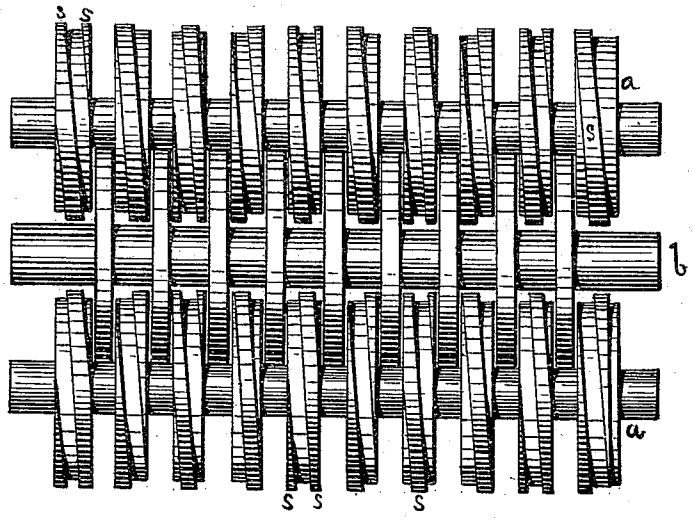
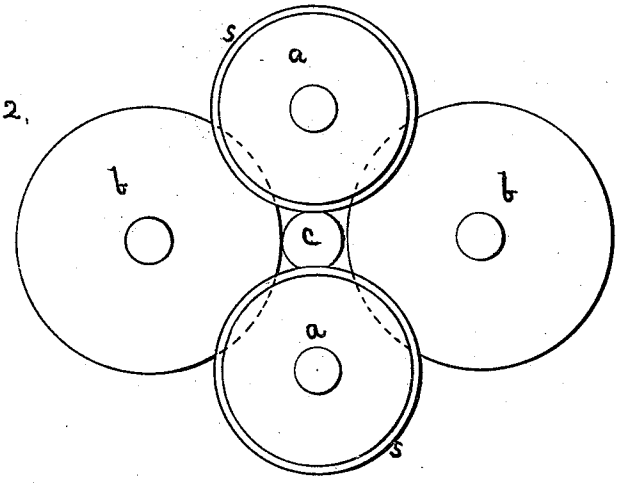


Fig. 2.



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UNITED STATES PATENT OFFICE.

WINSLOW ALLDERDICE, OF WARREN, OHIO, ASSIGNOR OF ONE-HALF TO JUNIUS DANA, OF SAME PLACE.

ROLLS FOR REDUCING AND STRAIGHTENING METAL RODS.

SPECIFICATION forming part of Letters Patent No. 427,288, dated May 6, 1890.

Application filed October 26, 1887. Renewed March 12, 1890. Serial No. 343,580. (No model.)

To all whom it may concern:

Be it known that I, WINSLOW ALLDERDICE, a citizen of the United States, residing at Warren, in the county of Trumbull and State of Ohio, have invented a new and useful Improvement in Feed-Rolls, of which the following is a specification.

My invention relates to feed-rolls adapted for machines for rounding, straightening, and finishing rods or tubes; and it consists of one or more rolls formed with annular grooves, or what are known as "collared rolls," the perimeters of the collars or parts between the annular grooves being screw-threaded.

In the drawings forming a part of this specification, Figure 1 is a side elevation of two of the feed-rolls and a rear working-roll, and Fig. 2 is an end elevation of the feed-rolls and working-rolls.

Heretofore feed-rolls for the purpose above mentioned have been formed with annular grooves and set at an angle with each other and with the working-rolls, and therefore only a small part of the feed-rolls were in contact with the rod to be operated on. In my invention, by reason of the screw-threads on the feed-rolls, they may be set parallel with each other and with the working-rolls, thereby simplifying the connecting-gearing and bringing the whole length of the feed-rolls in contact with the rod to be operated on. The rolls are to be set in a suitable frame and operated by gearing in the ordinary and well-known way.

The feed-rolls *a a* and working-rolls *b b* are arranged parallel with each other and at a suitable distance apart to be in contact with the rod or tube *e* to be fed between them by the feed-rolls. For convenience the parts of the rolls between their annular grooves are herein termed "collars." The perimeters of feed-rools *a a* are screw-threaded, and preferably set or arranged so that the faces of screw-threads *s* on each of them shall be opposite to those on the other, as shown in the drawings, and both of the feed-rolls are to be rotated in the same direction.

The feed-rolls may be conveniently made by first screw-threading them and then grooving them annularly. By rotating them their screw-threads feed the rod to be operated on by the working-rolls *b b*.

I claim as my invention—

One or more feed-rolls formed with annular grooves and having their collars or parts between the grooves screw-threaded and adapted for use in combination with working-rolls, substantially as and for the purpose described.

WINSLOW ALLDERDICE.

Witnesses:
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