

(No Model.)

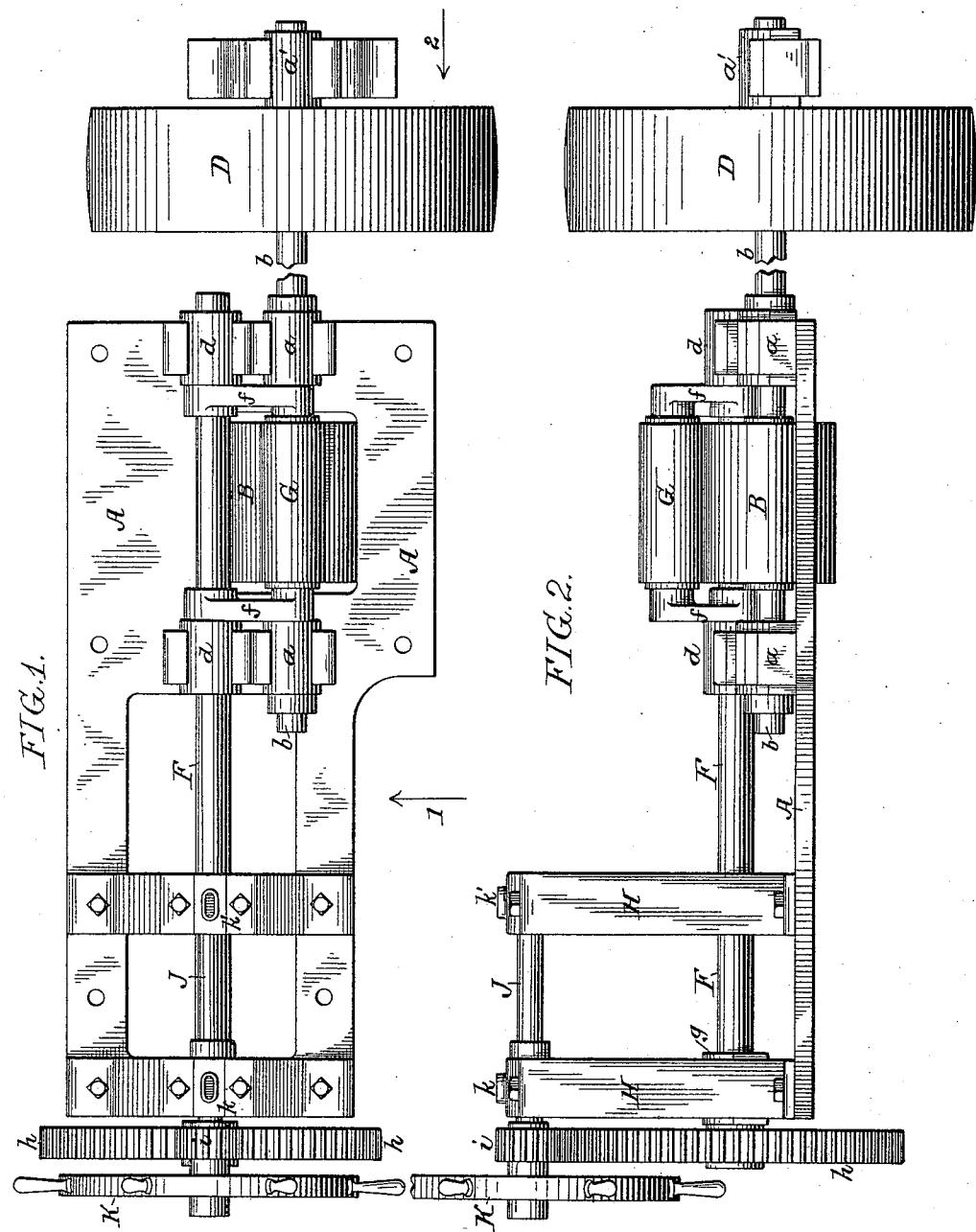
2 Sheets—Sheet 1.

T. J. PRICE.

FEEDING DEVICE FOR SKELP MILLS, &c.

No. 450,423.

Patented Apr. 14, 1891.



Witnesses

A. J. Grunke.
Murray C. Boyer

Inventor:

Thomas J. Price
by his Attorneys
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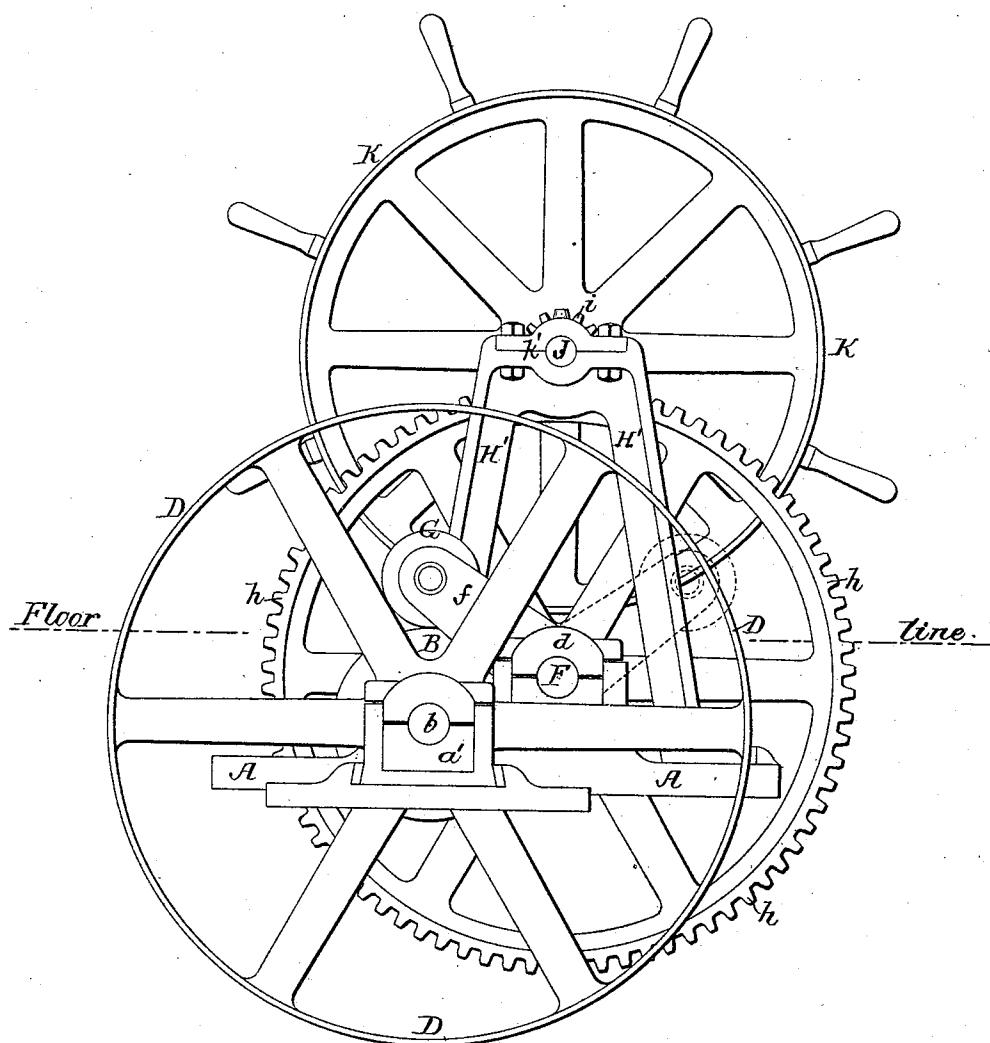
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FIG. 3.



Witnesses.

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UNITED STATES PATENT OFFICE.

THOMAS J. PRICE, OF DANVILLE, PENNSYLVANIA.

FEEDING DEVICE FOR SKELP-MILLS, &c.

SPECIFICATION forming part of Letters Patent No. 450,423, dated April 14, 1891.

Application filed November 10, 1890. Serial No. 370,903. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. PRICE, a citizen of the United States, and a resident of Danville, Montour county, Pennsylvania, have 5 invented certain Improvements in Feeding Devices for Skelp-Mills, &c., of which the following is a specification.

The object of my invention is to provide a simple but efficient device for facilitating the 10 handling of metal bars or plates in certain rolling-mill operations—for instance, in taking a bar or plate from a train of finishing-rolls and feeding it forward to a pair of shears or other machine in which said bar or plate 15 is subjected to subsequent treatment.

The invention comprises a pair of feed-rolls, one of which is positively driven, the other being provided with mechanism whereby it may be moved toward or from said 20 positively-driven roll, all as fully described hereinafter.

In the accompanying drawings, Figure 1 is 25 a plan view of a feeding device constructed in accordance with my invention. Fig. 2 is a front view of the same, looking in the direction of the arrow 1, Fig. 1; and Fig. 3 is an end view, on a larger scale, looking in the direction of the arrow 2, Fig. 1.

A is a bed-plate, upon which are suitable 30 bearings *a* for the shaft *b* of a roll *B*, said shaft being provided with a pulley *D* for receiving a driving-belt from a pulley on any adjacent counter-shaft, that portion of the shaft *b* beyond the pulley being adapted to a bearing *a'*.

On the bed-plate *A*, adjacent to the bearings *a*, are other bearings *d* for a rock-shaft *F*, which carries a pair of arms *f*, to bearings at the outer ends of which is adapted the shaft 40 or spindle of a roll *G*, preferably considerably less in diameter than the roll *B*. The shaft *F* projects in one direction considerably beyond the bearings *d*, and is adapted to a bearing *g*, near the base of a standard *H*, mounted 45 on the base-plate *A*, the outer end of said shaft *F* being provided with a spur-wheel *h*, which meshes with a spur-pinion *i* on a shaft *J*, the latter turning in a bearing *k* at the upper end of the standard *H*, and in a similar 50 bearing *k'* at the upper end of a like standard

H', mounted upon the bed-plate *A*, adjacent to the standard *H*.

The outer end of the shaft *J* is provided with a hand-wheel *K*, whereby said shaft can be readily turned in either direction, such 55 movement being transmitted through the spur-gearing to the shaft *F*, so that a rocking movement can be imparted to the latter shaft, and its arms *f* thereby vibrated, so as to carry the roll *G* toward and from the roll *B*. The 60 latter roll rotates continuously, and during the rolling of the bar or plate by the train of rolls the roll *G* occupies a position away from the roll *B*, as shown, for instance, by dotted lines in Fig. 3. 65

The feeding device forming the subject of my invention is, by preference, so located in respect to the rolls that as the bar or plate leaves the finishing-pass the end of the same will be projected over the roll *B*, and the hand-wheel 70 *K* is then manipulated so as to swing the rock-shaft *F* and cause the roll *G* to move over and toward the roll *B*, this movement continuing until the bar or plate is firmly gripped between the rolls *B* and *G*, and is consequently fed forward, owing to the rotation 75 of said roll *B*, the parts preserving this relation to each other until the feeding of the bar or strip has been completed, whereupon the roll *G* is again moved away from the roll 80 *B* until another bar or strip has to be acted upon. 85

The bed-plate *A* is preferably sunken beneath the floor of the mill to such an extent that the roll *B* projects but slightly above the 85 floor-line of the mill, as shown, for instance, in Fig. 3.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. The combination of the lower roll and 90 means for rotating the same with the upper roll, a rock-shaft having arms carrying said roll, a spur-wheel secured to said rock-shaft, a spur-pinion engaging with said wheel, and a shaft carrying said pinion and provided 95 with a hand-wheel, substantially as specified.

2. The combination of the lower roll and means for rotating the same, the upper roll, a rock-shaft having arms carrying said upper roll, a spur-wheel on said rock-shaft, a pin- 100

ion engaging with said spur-wheel, a pinion-shaft having a hand-wheel, and a bed-plate having at one end bearings for the rock-shaft and the shaft of the driven roll and at the 5 other end standards having bearings for the pinion-shaft, substantially as specified.

In testimony whereof I have signed my

name to this specification in the presence of two subscribing witnesses.

THOMAS J. PRICE.

Witnesses:

WILSON M. GEARHART,
ROBERT ADAMS.