No. 799,916. PATENTED SEPT. 19, 1905.

E. MEYER.

FEED TRAIN FOR ROLLING MILLS.

APPLICATION FILED OCT. 31, 1904.

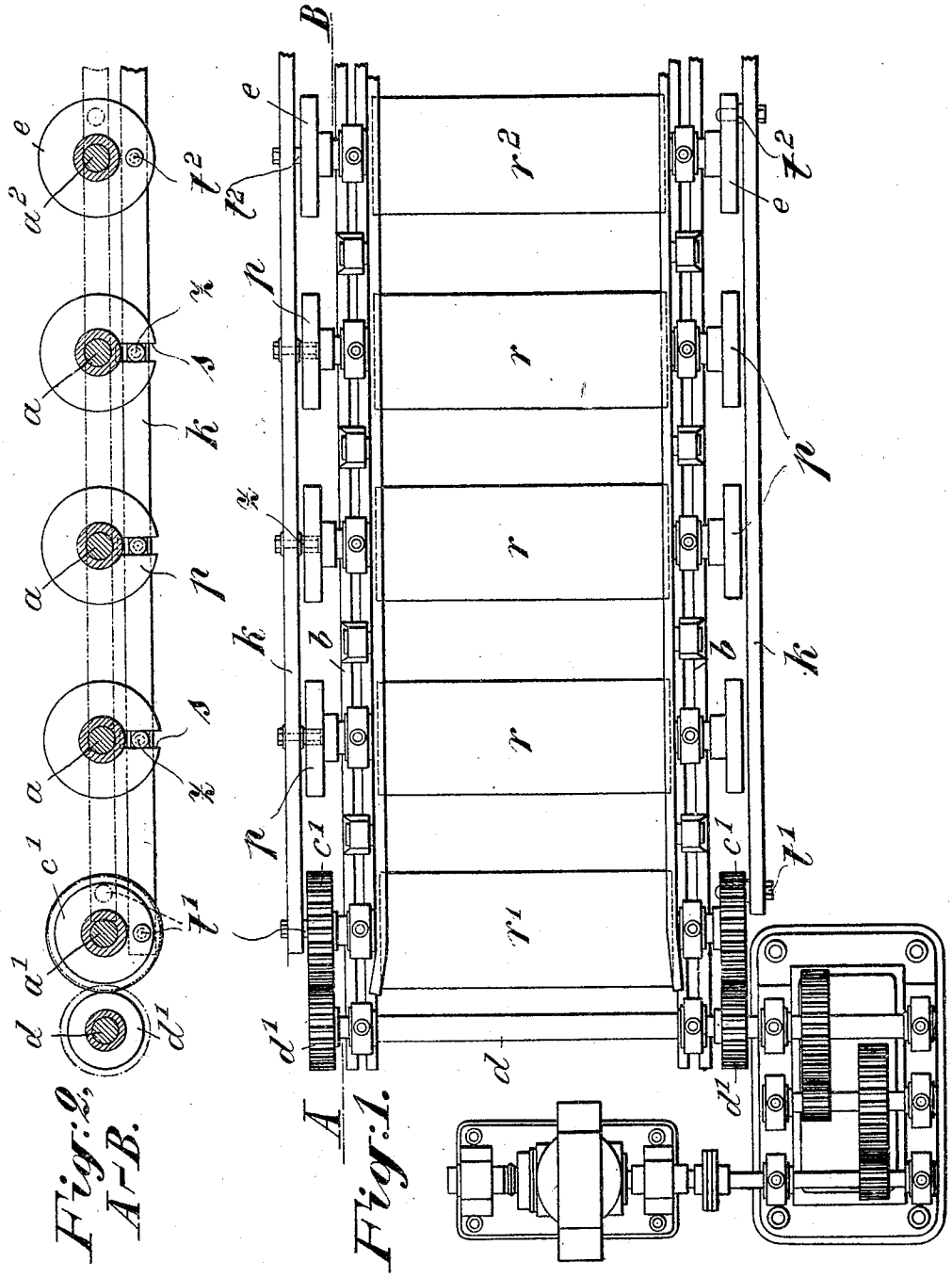


Fig. 1.

Fig. 2, A-B.

Witnesses:
Arthur Jennpe.
F. Unfricht

Inventor:
Emil Meyer,
by Frank W. Briesen Att'y.

UNITED STATES PATENT OFFICE.

EMIL MEYER, OF DUISBURG, GERMANY.

FEED-TRAIN FOR ROLLING-MILLS.

No. 799,916. Specification of Letters Patent. Patented Sept. 19, 1905.

Application filed October 31, 1904. Serial No. 230,669.

To all whom it may concern:

Be it known that I, EMIL MEYER, a citizen of the German Empire, and a resident of Duisburg, Germany, have invented certain new and useful Improvements in Feed-Trains for Rolling-Mills, of which the following is a specification.

This invention relates to a feed-train for rolling-mills, which is so constructed that a yielding connection is formed between some of the rollers and the driving mechanism. In this way the rollers are not apt to lose their proper position owing to the dropping of the ingots, the yielding of the foundations, or from other causes.

In the accompanying drawings, Figure 1 is a plan of a feed-train for rolling-mills embodying my invention; and Fig. 2, a vertical longitudinal section on line A B, Fig. 1.

The letters r' r^2 represent two spaced or flanking rollers of a rolling-mill, between which are arranged intermediate rollers r. The shafts a' a a^2 of rollers r' r r^2, respectively, are journaled in a frame or bearing b, as shown. Upon shaft a' of roller r' are mounted gear-wheels c', that mesh into wheels d' of the driving-shaft d. Upon shaft a^2 of roller r^2 are mounted disks e, having wrist-pins t^2, that are connected to corresponding wrist-pins t' of gear-wheels c' by rods k.

The shafts a of the intermediate rollers r carry disks p, provided with radial slots s. These slots are engaged by pins z of connecting-rods k, so that rotatory movement is imparted to rollers r from rods k.

It will be seen that by the construction described a yielding connection between the rods k and the shafts a of the intermediate rollers r is effected. In this way any objectionable strain is avoided on the driving mechanism owing to the settling of the frame or a wear of the bearings.

What I claim is—

1. In a rolling-mill, the combination of a frame with a series of rollers journaled therein, flanking disks and intermediate disks mounted upon the roller-shafts, a rod connecting the flanking disks, and pins on said rod that engage slots of the intermediate disks, substantially as specified.

2. In a rolling-mill, the combination of a frame with flanking rollers and intermediate rollers journaled therein, flanking disks mounted upon each end of the flanking-roller shafts, intermediate slotted disks mounted upon one end of the intermediate-roller shafts, a rod on each side of the rollers for connecting the flanking disks, pins on one of said rods that engage the slotted disks, and means for rotating one of the flanking disks, substantially as specified.

In testimony whereof I have hereunto signed my name in the presence of two witnesses.

EMIL MEYER.

Witnesses:
WILLIAM ESSENWEIN,
PETER LIEBER.