

No. 652,121.

Patented June 19, 1900.

F. W. KOENIG.
DEVICE FOR LAYING METALLIC LEAF.

(Application filed Mar. 21, 1900.)

(No Model.)

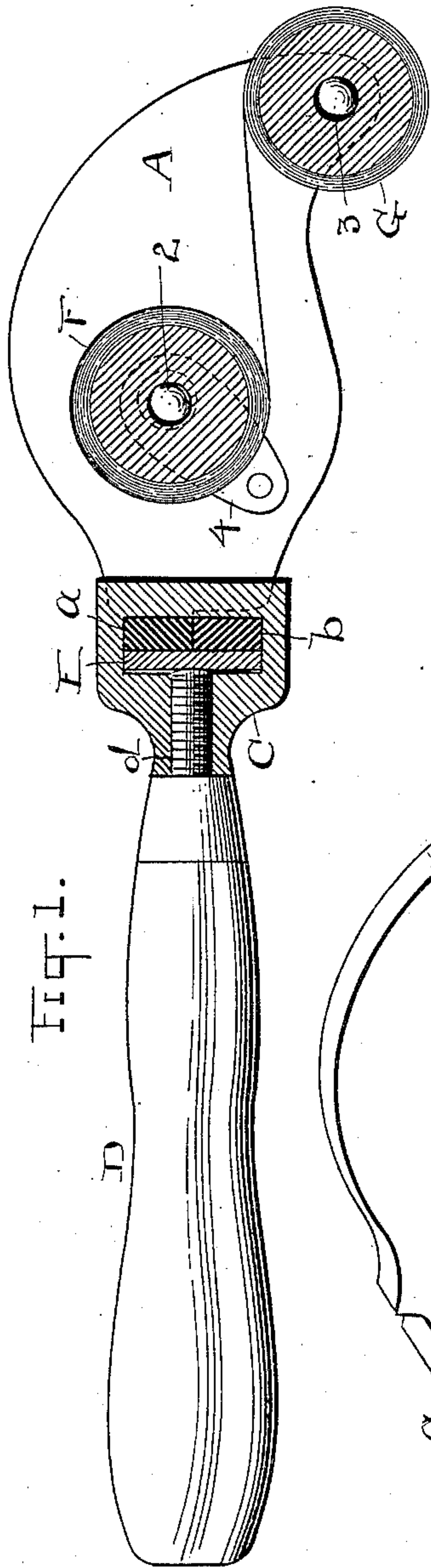


Fig. 1.

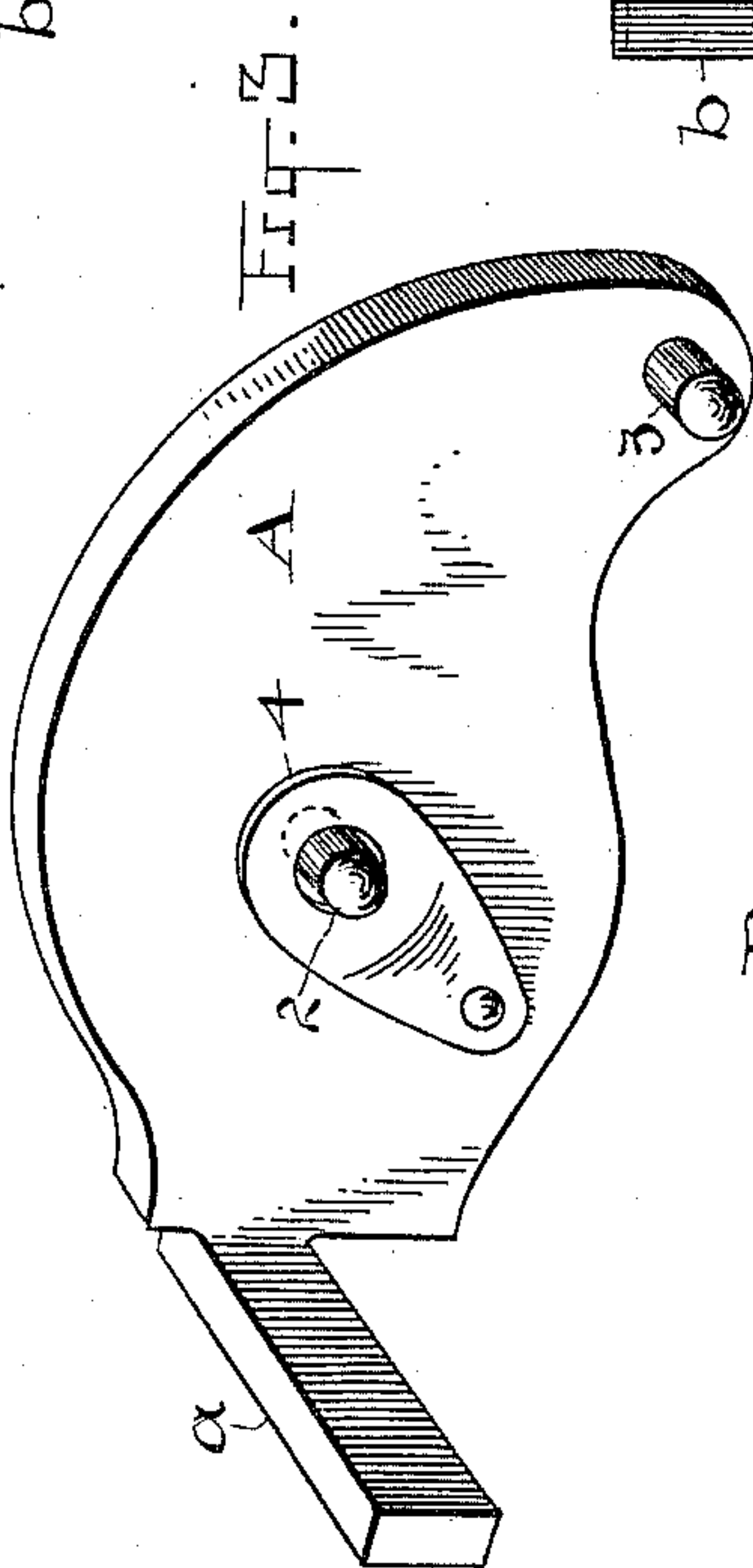


Fig. 2.

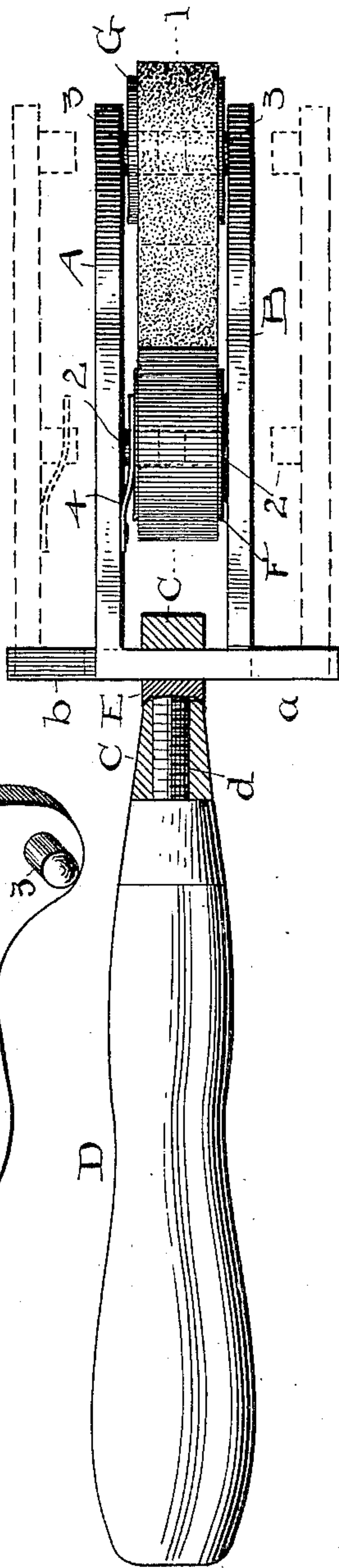


Fig. 3.

ATTEST

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DEVICE FOR LAYING METALLIC LEAF.

SPECIFICATION forming part of Letters Patent No. 652,121, dated June 19, 1900.

Application filed March 21, 1900. Serial No. 9,510. (No model.)

To all whom it may concern:

Be it known that I, FRIEDRICH W. KOENIG, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Devices for Laying Metallic Leaf; and I do declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a device for laying metallic leaf, such as gold and silver leaf and the like; and the invention consists in a construction wherein there is a leaf or foil carrying roll and a leaf or foil delivering roll, with adjustable side supports adapted to different widths of rolls or spools and also to the removal and the replacing of rolls as they become exhausted, and means to conveniently and easily secure said parts in working position, all substantially as shown and described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a longitudinal sectional elevation of the device on line 1 1, Fig. 2, excepting that the handle is shown in full lines; and Fig. 2 is a plan view of Fig. 1. Fig. 3 is a perspective elevation of the detachable member or side of the device, as will hereinafter more fully appear.

The device itself, apart from its rolls or spools and constituting its framework, consists of two sides A and B, which are in a sense duplicates of each other, though designed for opposite positions, and are preferably of the outline or fashion plainly shown in side elevation. Each side has a lateral arm *a* and *b*, respectively, at its rear at right angles to the sides and extending inward from each side and of such length as to afford adjustment of the sides in respect to each other from the narrowest to the largest width required for the largest spools or rollers and so that a very narrow spool or very wide spool can be used with equal advantage so far as the tool itself is concerned. The said arms *a* *b* are positioned to overlap one above the other in the same plane in the head C, to which the handle is affixed. The said head has a transverse recess or opening suitable

in elevation to receive the two said arms snugly as to their elevation, but with room behind them for the follower E. This follower is preferably a metallic piece with flat sides and ends filling the remainder of said recess not occupied by the said arms, but leaving the arms loose enough when the follower is not pressed to move either or both of the sides laterally more or less as occasion may require. If the purpose be simply to replace the rolls of a given size, there need be only enough room to release the rolls from their bearings and replace others, when the said sides are moved together again, as before, and the follower is tightened upon the arms. The tightening in this instance is effected by means of a screw *d*, fixed rigidly upon handle D and extending axially inward through the head C against the follower E and adapted to bear against the same sufficiently to tighten the said arms. A slight reverse rotation of the handle releases said arms, and so it occurs that this method of securing the sides A and B is not only a very simple and convenient one, but also simple and cheap in construction, thus enabling me to make a comparatively-inexpensive tool.

F is the supply-roll for the foil or leaf, and G is the delivery-roll, and these rolls are pivoted upon lugs or projections 2 and 3, respectively, upon the insides of the plates A and B, forming bearings for the rolls and constituting a rigid part with the said sides. The said sides are somewhat pointed, and the bearings 3 are so positioned on said points as to expose the roll G to the surface on which it is designed to travel. A leaf-spring 4 on the side A is arranged to bear against the side of the supply-spool F and give it sufficient resistance to control the feed therefrom to the spool G, so that there will be no waste or surplusage given off during the operation, and the leaf or foil will be kept under such tension on spool G as to do the desired work. Of course the special form of spring 4 here shown may be substituted by some other form, if preferred; but it should be a fixed spring, as in this case.

What I claim is—

1. A device substantially as described having two separate and separable sides with in-

ward-overlapping arms at their inner ends, and a head in which said arms are adjustably locked, substantially as described.

2. The device substantially as described
5 having two separate laterally-adjustable sides with an inwardly-projecting arm on each side at its rear, and the arm of one side arranged to overlap the other in the same plane, in combination with a head through which said arms
10 project, a follower in said head to tighten said arms and bearings in said sides to carry the spools, substantially as described.

3. The combination of the two adjustable sides and the arms thereon, with a head
15 through which said arms project, a follower in said head bearing against said arms and a

handle and screw to press against said follower to tighten it, substantially as described.

4. The device for laying leaf-foil having a head, and two side members having inward
20 projections supported by said head and adjustable to receive different sizes of rollers, and bearings for rollers on the inside of said members and a spring to bear against the roller, substantially as described. 25

Witness my hand to the foregoing specification this 14th day of March, 1900.

FRIEDRICH W. KOENIG.

Witnesses:

H. E. MUDRA,

R. B. MOSER.