No. 662,797. Patented Nov. 27, 1900.

G. KUNZ.

FEED MECHANISM.

(Application filed Dec. 2, 1899.)

(No Model.)

Fig. 1

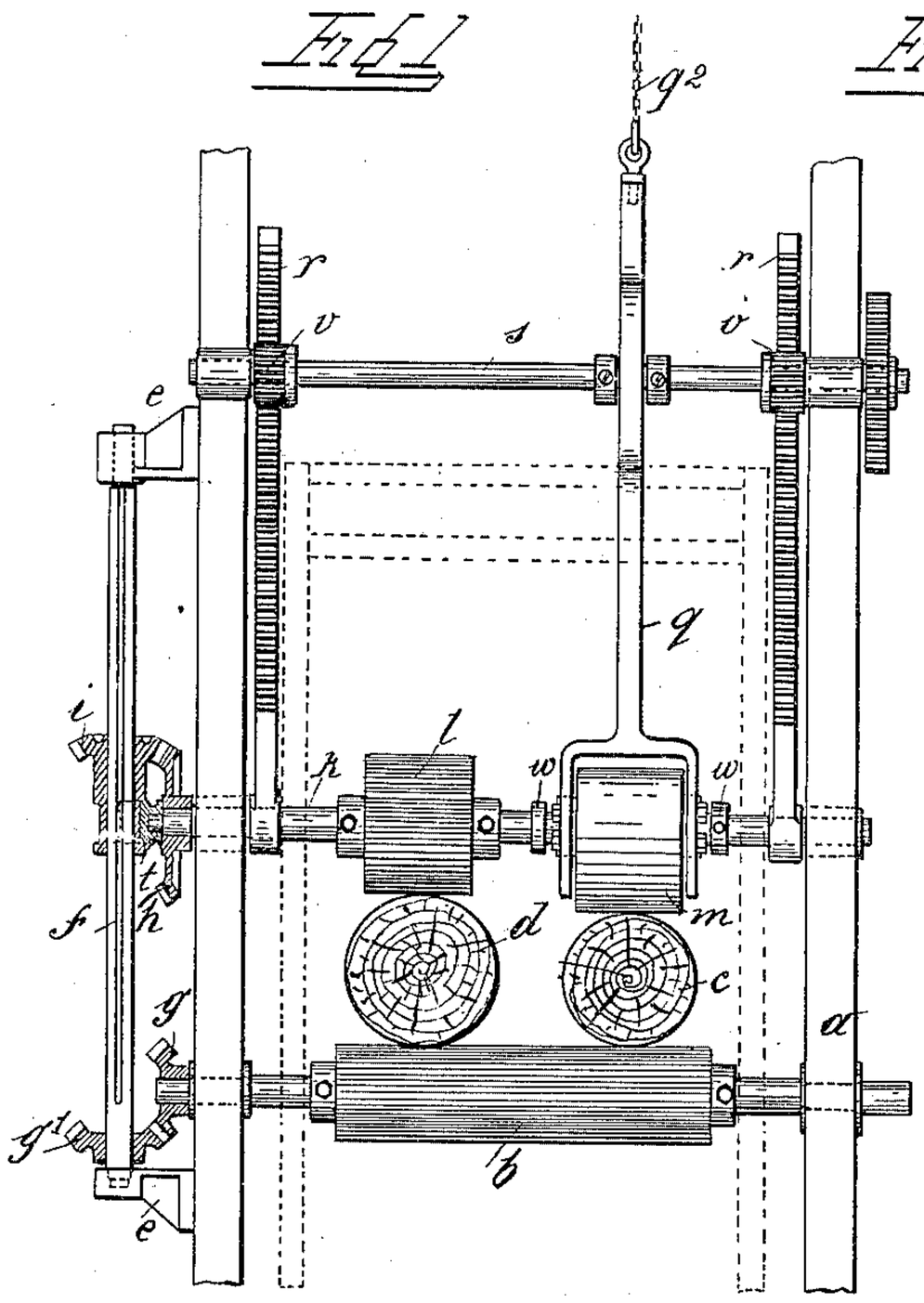


Fig. 2

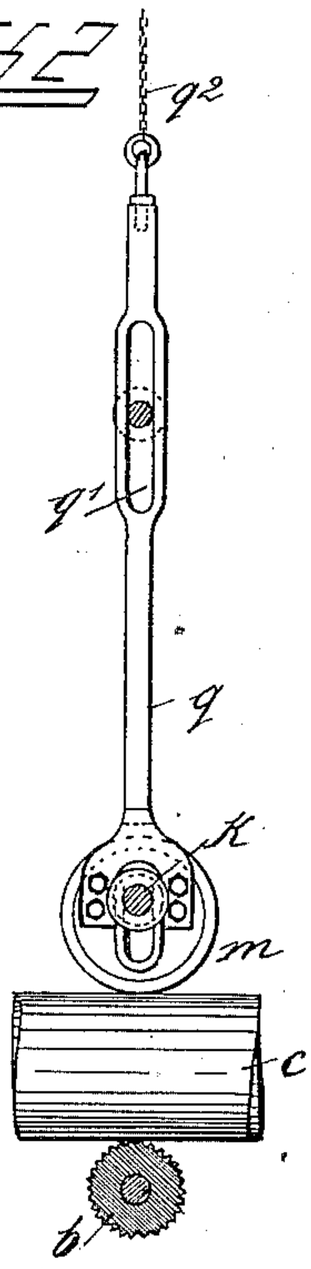


Fig. 3.

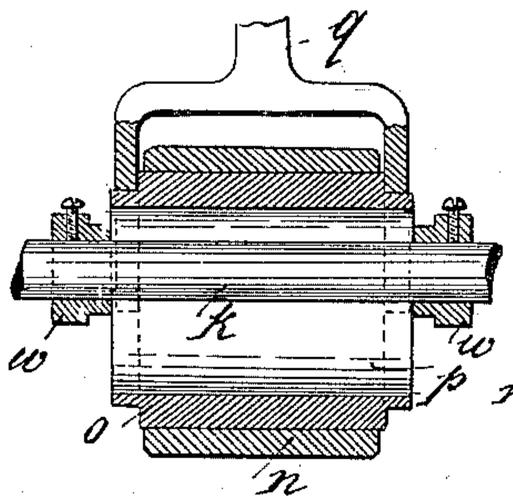
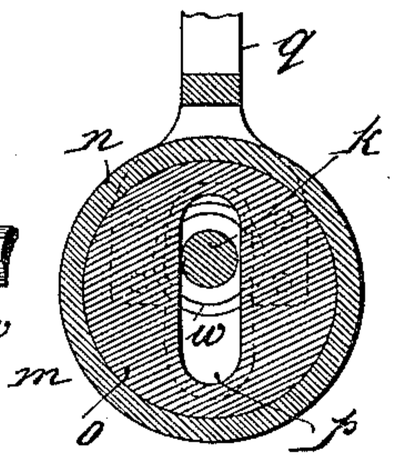


Fig. 4.



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per
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UNITED STATES PATENT OFFICE.

GOTTLIEB KUNZ, OF SCHWABEN, GERMANY.

FEED MECHANISM.

SPECIFICATION forming part of Letters Patent No. 662,797, dated November 27, 1900.

Application filed December 2, 1899. Serial No. 739,043. (No model.)

To all whom it may concern:

Be it known that I, GOTTLIEB KUNZ, a subject of the German Emperor, and a resident of Schwaben, Germany, have invented certain new and useful Improvements in Adjustable Feeding Devices for Roller-Frames, of which the following is a specification.

My present invention relates to feeding devices for roller-frames, the object being to provide a device of this kind whereby two beams of different diameters may be moved forward at a time.

The invention consists in that one of the pressure-rollers mounted on a common shaft and bearing against the beams moved forward on a grooved roller is formed of an outer casing and an inner roller, the latter being adapted to be moved vertically on the common shaft in accordance with the diameter of the beam underneath it.

In the accompanying drawings, Figure 1 is a front elevation of the feed and pressure rollers and connections. Fig. 2 is a side elevation of the adjustable pressure-roller with a beam underneath it and the feed-roller. Fig. 3 is a longitudinal section, and Fig. 4 a transverse section, of the adjustable pressure-roller.

Referring to the drawings, *b* represents a grooved feed-roller suitably journaled in the frame *a* and connected with any driving device. (Not shown.) The shaft of said grooved roller carries a bevel gear-wheel *g*, meshing with another gear-wheel *g'*, keyed on the lower end of a vertical shaft *f*, journaled in brackets *e e*, secured to the frame *a*, Fig. 1. The vertical shaft *f* carries an adjustable bevel gear-wheel *i*, meshing with the bevel gear-wheel *h*, keyed on the shaft *k* of the pressure-rollers. The hub of the wheel *i* is provided with a large annular recess or groove engaged by a head *t*, rotatably mounted on the end of the shaft *k*. The latter is journaled in the lower ends of two vertical rack-bars *r*, suitably guided on the frame *a* and adapted to be raised and lowered by rotating the shaft *s*, journaled on the frame *a* and carrying two toothed wheels *v v*, meshing with said rack-bars. The shaft *k* carries the grooved roller *l* and the adjustable roller *m*. The latter is formed of a cylindrical core *o*, provided with a slot *p*, Fig. 4, and rigidly connected on both sides to the forked bar *q*, Figs. 1 to 4, provided with a slot *q'*, through which extends the aforesaid shaft *s* for the purpose of guiding said bar, Fig. 2. Around the core *o* is rotatably fitted an outer casing *n*, Fig. 3, which presses upon the beam *c*, fed by means of the grooved roller *b*. The core *o* is prevented from moving laterally on the shaft by two washers *w w*, secured on said shaft on each side of said core.

q^2 represents a chain or equivalent by means of which the adjustable roller *m* may be lifted independently from the roller *l*.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

In an adjustable feeding device for roller-frames, the combination of the grooved feed-roller, supporting and feeding the beams to be cut, of a pressure-roller, the shaft of which is journaled in vertically-adjustable supports, said pressure-roller comprising an inner roller, a slot in the same through which the shaft of the roller extends, an outer casing rotatably fitted around the inner roller and adapted to roll and press upon the beam to be cut and a lifting-fork the branches of which are secured to said inner roller, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two witnesses.

GOTTLIEB KUNZ.

Witnesses:
THERESE ETTL,
EMIL HENZEL.