

G. P. FENNER.
DRIVING MECHANISM FOR INKING ROLLERS.
APPLICATION FILED SEPT. 19, 1911.

1,015,012.

Patented Jan. 16, 1912.

2 SHEETS-SHEET 1.

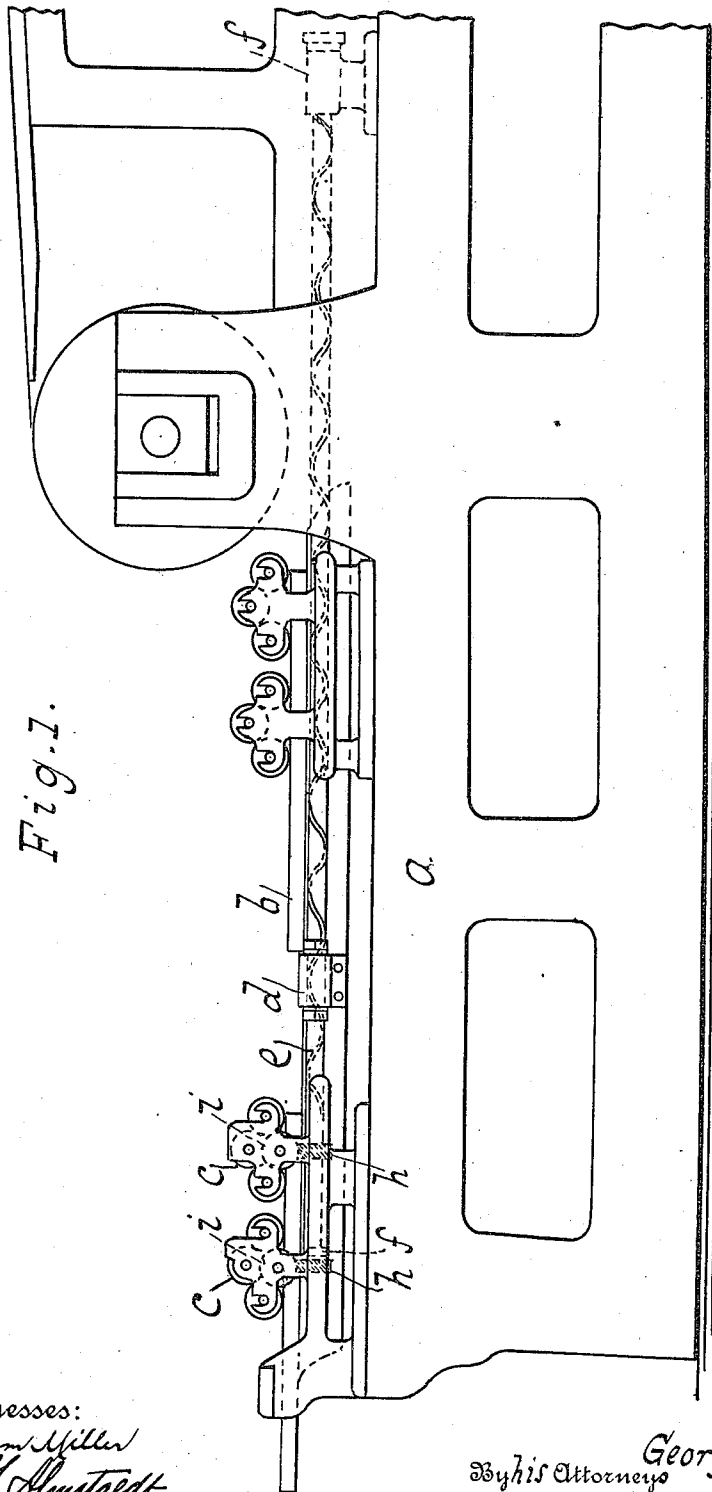


Fig. 1.

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2 SHEETS—SHEET 2.

Fig. 2.

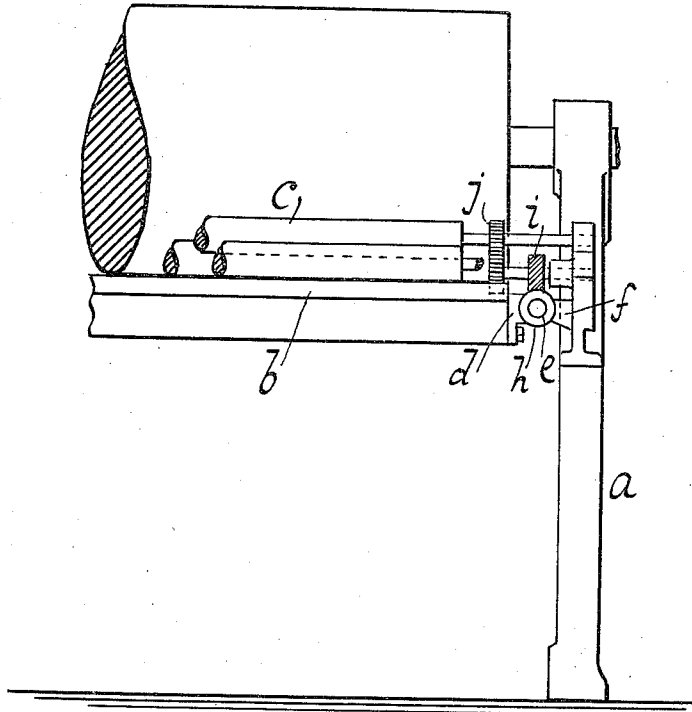


Fig. 3.

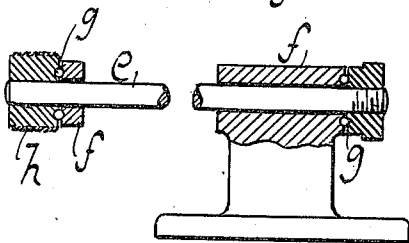
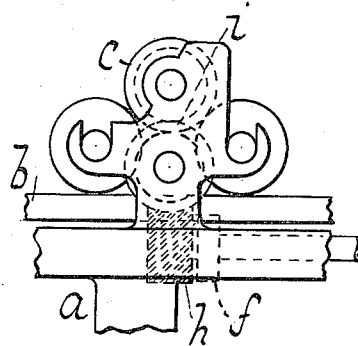


Fig. 4.



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UNITED STATES PATENT OFFICE.

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DRIVING MECHANISM FOR INKING-ROLLERS.

1,015,012.

Specification of Letters Patent.

Patented Jan. 16, 1912.

Application filed September 19, 1911. Serial No. 650,257.

To all whom it may concern:

Be it known that I, GEORGE P. FENNER, a citizen of the United States, residing at New London, in the county of New London and State of Connecticut, have invented new and useful Improvements in Driving Mechanism for Inking-Rollers, of which the following is a specification.

This invention relates to a device for driving the inking rollers of a printing press which is absolutely noiseless while in action, is compact and takes up little space.

The invention consists essentially in providing the reciprocating bed of the printing press with a nut designed to engage a spiral grooved cylinder and impart to the same rotary reciprocating motion while the bed is in action. The spiral cylinder has spiral gears which are connected to and transmit rotary reciprocating motion to the inking rollers.

The novel features of the invention are more fully described in the following specification and claims and illustrated in the accompanying drawings in which:

Figure 1 represents a side elevation of a printing press embodying this invention. Fig. 2 is an end view of the same. Fig. 3 is a detail sectional side view of a spiral cylinder. Fig. 4 is a detail side view of a set of inking rollers.

In this drawing the letter *a* designates a frame and *b* is the bed to which can be imparted rectilinear reciprocating motion in any well known way. The inking rollers *c* are arranged above the bed in the usual way. A nut *d* is firmly secured to the bed and this nut is adapted to engage a grooved spiral cylinder *e* rotatively attached to the frame. This grooved spiral cylinder is supported in journals *f* which are secured to the frame. The end thrust of the spiral cylinder is taken up by ball bearings *g* best seen in Fig. 3. One end of the spiral cylinder is provided with a number of spiral gears *h* each gear being adapted to engage a spiral gear *i* and thus cooperating with the gears *j* transmit motion to the inking rollers.

It will be seen that when the bed of the

press is operated it carries with it the nut which being in engagement with the grooved spiral imparts rotary reciprocating movement to the said spiral. Furthermore the spiral by means of the spiral gears transmits reciprocating rotary motion to the inking rollers thereby evenly distributing the ink over the bed of the press. At the forward movement of the bed the threaded portion of the nut travels in the spiral groove of the cylinder thus rotating the cylinder in one direction. While at the rearward movement of the bed the rotation of the spiral is reversed.

I claim:

1. In a device for driving inking rollers, the combination with a reciprocating bed, inking rollers cooperating with the bed, a spiral cylinder engaged by the bed and connected to the inking rollers adapted to receive rotary reciprocating motion by the actuation of the bed and impart rotary reciprocating motion to the inking rollers.

2. In a device for driving inking rollers, the combination with a reciprocating bed, inking rollers cooperating with the bed, a spiral cylinder mounted on the frame and operatively engaged by the bed, devices carried by the spiral for engagement with the inking rollers, said spiral being adapted to receive rotary reciprocating motion by the actuation of the bed and impart rotary reciprocating motion to the inking rollers.

3. In a device for driving inking rollers, the combination with a reciprocating bed, inking rollers cooperating with the bed, a grooved spiral cylinder mounted on the frame, a nut attached to the bed for engagement with and to impart rotary reciprocating motion to the spiral cylinder, and gears carried by the spiral cylinder for engagement with and adapted to transmit rotary reciprocating motion to the inking rollers.

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

GEORGE P. FENNER.

Witnesses:

FRED S. ENGLISH,
EVA L. HUDSON.