

H. Barth.

Gripper & Gauge for Printing Press.

N^o 99749.

Patented Feb. 15, 1870.

Fig 1.

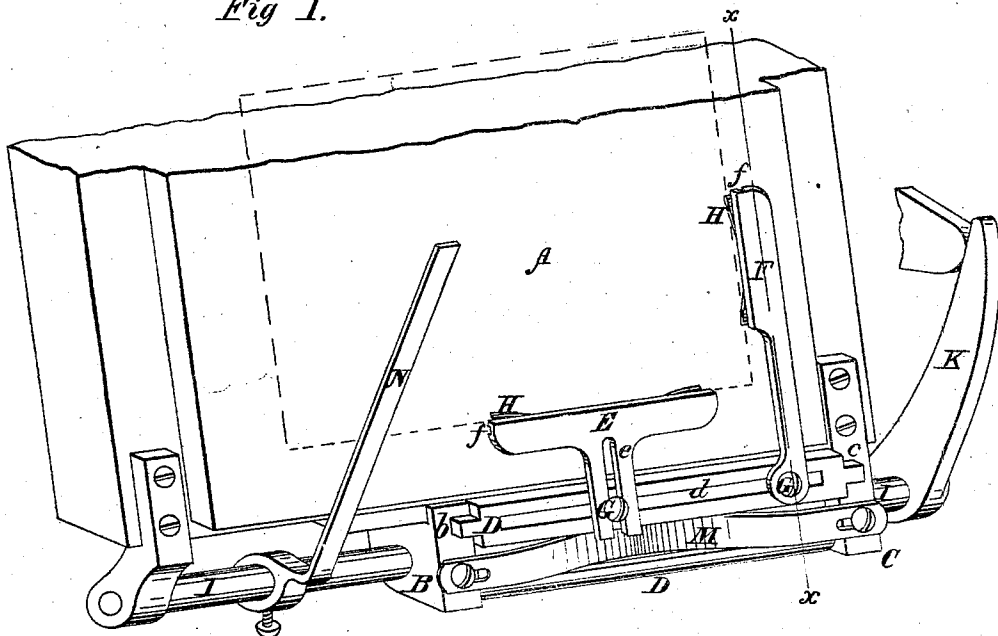


Fig. 2.

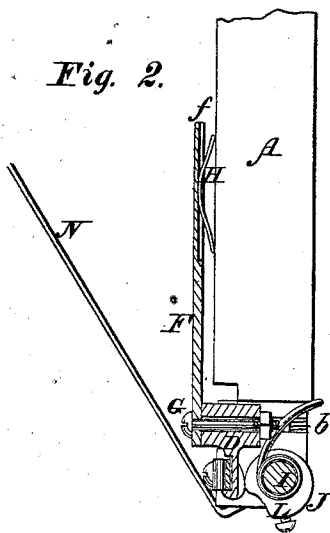


Fig. 3.

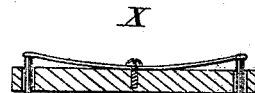
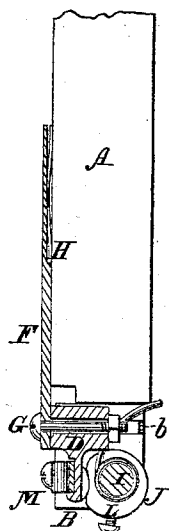
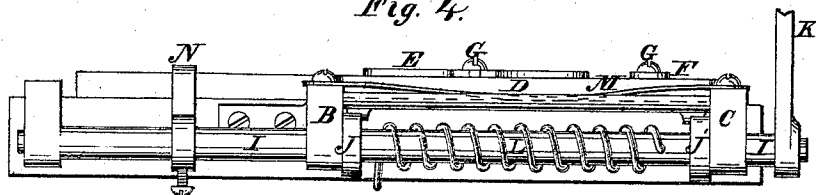


Fig. 4.



Witnesses,

Jas. H. Layman,
William F. Bauer

Inventor,

Henry Barth
By *[Signature]*

United States Patent Office.

HENRY BARTH, OF CINCINNATI, OHIO.

Letters Patent No. 99,749, dated February 15, 1870.

IMPROVEMENT IN GRIPPERS AND GAUGES FOR PRINTING-PRESSES.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, HENRY BARTH, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Improvement in Friskets; and I hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

My invention relates to an appendage to a frisket, which, on the elevation of the clamps, serves as a gauge to enable the attendant of the printing or other press to place the blank or sheet of paper accurately upon the platen, and which permits of the proper closure of the frisket, as well as of its adjustment for blanks of diverse dimensions, when required.

Figure 1 is a perspective view of a platen and frisket embodying my invention, the clamp being raised.

Figures 2 and 3 are vertical sections in the line *x x*, representing the open and closed positions of the frisket.

Figure 4 represents the lower edge of the platen.

Projecting from the rear side of the platen *A* are two lugs, *B C*, having grooves, *b c*, for the tongued ends of a sliding head, *D*, which carries two short-stroke frisket-jaws or clips, *E* and *F*, for the foot and further side of the paper. These clips are secured to the head *D* by the bolts *G*, which occupy a slot, *d*, in the head, which, when sufficiently slackened, can be adjusted for different lengths of paper.

The clip *E* also has a slot, *e*, to enable its adjustment forward or backward, for different widths of paper.

Each clip has on its under side, parallel with its edge, a groove, *f*, to contain a spring, *H*, or its equivalent, which at all times presses the top of the platen, so as, in the elevated condition of the clips, to serve as stops or gauges for the edges of the paper, and so as, in the closed condition of the clips, to be compressed wholly within its respective groove, so as not to interfere with the effective grip of the clips.

The lugs *B C* afford journal bearing for a shaft, *I*, having cams *J J'*, which, on a partial rotation of the

shaft, act to elevate the head *D*. This partial rotation may be effected by the action of an eccentric, or other instrumentality, upon an arm, *K*, and its retrograde rotation by the agency of a helical spring, *L*.

A plate spring, *M*, may serve to depress the head *D* when relieved from the action of the cams.

In the most complete form of my improvement, I provide a finger, or fingers, *N*, upon either the rear end of the shaft, as represented, or upon any other portion best adapted to the work in hand, which finger, at each elevation of the short-stroke clips, is, by the accompanying partial rotation of the shaft, as already explained, opened sufficiently wide to admit of the easy removal of the printed and the deposition of the blank sheet.

I have described the preferred form of my improvement, but may vary the same in non-essential particulars, or to suit particular cases; for example, the gauge-pieces may consist of bars or strips, confined by guide-pins, links, slots, or other device, and held in contact with the platen or tympan either by gravitation simply, or by springs, (see diagrams *X Y Z*,) and may be unaccompanied by the wide opening-finger *N*.

One or more wide opening-fingers may be used in combination with one or more short-stroke friskets, unprovided with the described gauge-pieces.

I claim herein as new, and of my invention—

1. The spring guides or gauges *H*, or their equivalents, attached to the clamps, so as to be adjusted therewith, substantially as set forth, for the purposes stated.

2. The wide opening paper-clamp or finger *N*, in combination with the short-stroke friskets *E*, arranged to operate substantially as and for the purposes set forth.

In testimony of which invention, I hereunto set my hand.

HENRY BARTH.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.