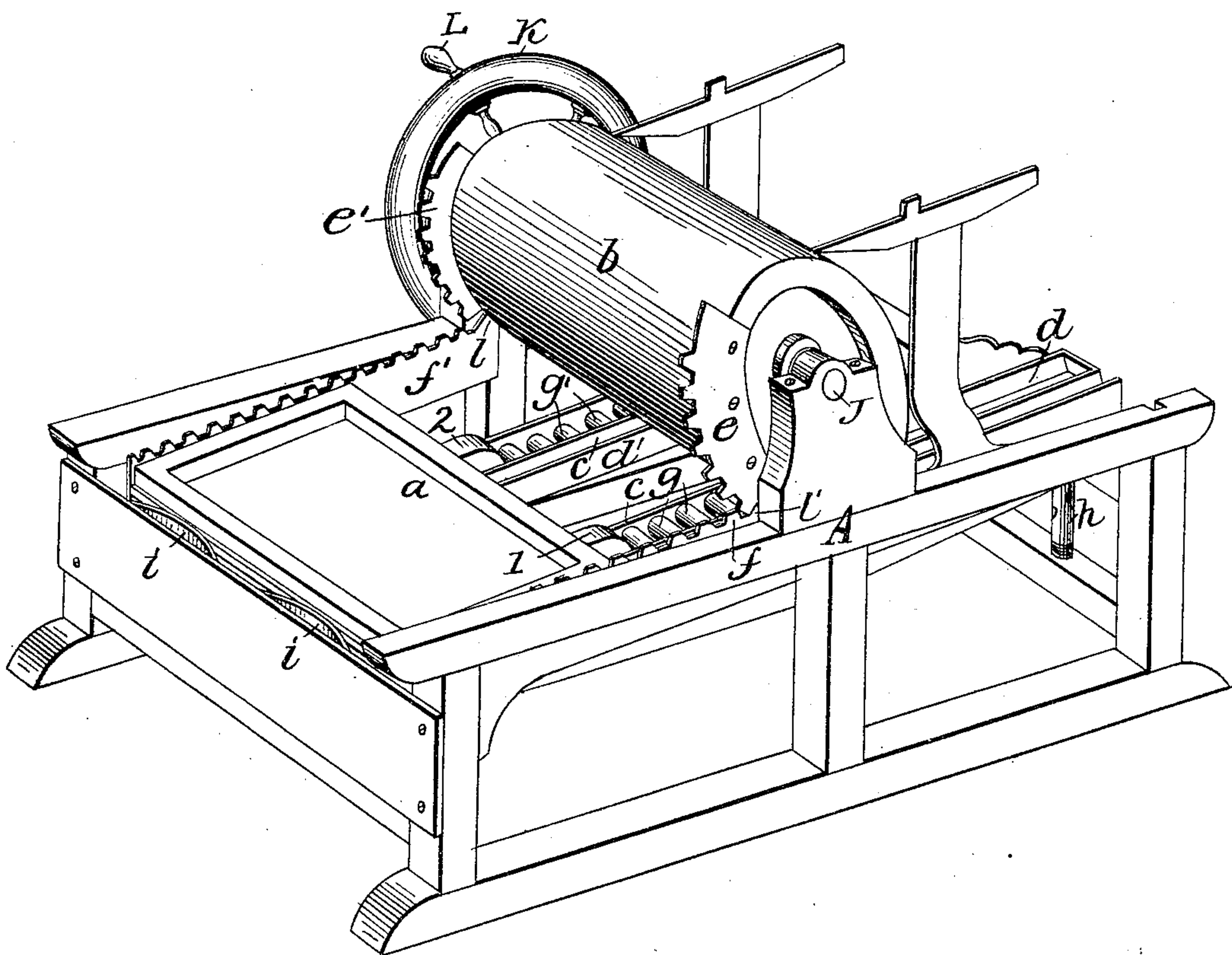


J. C. DAVIS & W. MILLER.
ROTARY PRINTING PRESS.

No. 16.826.

Patented Mar. 17, 1857.

Fig. 1.



Witnesses.
James P. McLean.
Ellen Davis

Inventors.
William Miller
John C. Davis.

UNITED STATES PATENT OFFICE.

JNO. C. DAVIS AND WM. MILLER, OF ELIZABETH, NEW JERSEY.

ROTARY PRINTING-PRESS.

Specification of Letters Patent No. 16,826, dated March 17, 1857.

To all whom it may concern:

Be it known that we, JOHN C. DAVIS and WILLIAM MILLER, of the city of Elizabeth, in the county of Essex and State of New Jersey, have invented a new and useful Improvement in the Construction of Rotary Printing-Presses; and we hereby declare the following to be a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawings, which drawings are lettered to correspond with and constitute a part of this specification.

Description.—Figure 1, letter (A,) is an oblique bird's-eye view of our improvement, the construction of which is, first a movable type bed (*a*,) that is placed upon two sets of friction rollers (*g* and *g'*,) that move not only upon their own axis, but up, and down, the inclined ways (*d*, *d'*,) with the type bed which is moved up the inclined ways, by means of the toothed or cogged plates (*f*,) and (*f'*,) which are fastened to the sides of the type bed (*a*,) being brought into gear with the circular plates *e* and *e'*, which are also toothed or cogged to correspond with (*f*, and *f'*,) which have projections upon their upper ends at (*l*,) so that when the cylinder (*b*,) is turned by hand or otherwise, the curved cogged plates (*e*, and *e'*,) being attached to the ends of the cylinder (by means of screws,) strike against the projections upon the upper ends of the plates *f*, and *f'*, which brings the cogs into gear, by which means the type bed is forced up the inclined ways (*d*, and *d'*,) but it returns

down the ways by its own gravity or weight. The type is pressed firmly against the roller (*b*,) during its passage up the inclined ways, which is either raised or lowered by simply turning the screws (*h*,) the springs *i*, and *i'*, that are placed at the lower ends of the inclined ways prevent the concussion, or shaking, from the stroke of the returning bed (*a*). Hence by the above arrangement we are enabled, to construct a good printing press, for less than one half the cost of the cheapest rotary presses now in use; we have effectually tested the quality of the work (being printers) hence know there is no defect whatever.

The novelty of our invention, is the manner of operating the type bed; we do not claim the separate parts of the machine as new. But

What we claim as new and wish to secure by Letters Patent of the United States is—

The combination of the rollers (*g*, *g'*,) with the shoes (1, 2,) and the inclination of the ways (or planes) (*d*, *d'*,) and the upright screws (*h*,) for operating the type bed, as substantially described in the above specification.

In testimony whereof we hereunto subscribe our names in the presence of two witnesses.

JOHN C. DAVIS.
WILLIAM MILLER.

Witnesses:

ELLEN DAVIS,
JAMES P. McLEAN.