

William V. Wallace.

Ink-Fountain for Printing-Presses.

116778

PATENTED JUL 4 1871

Fig. 1.

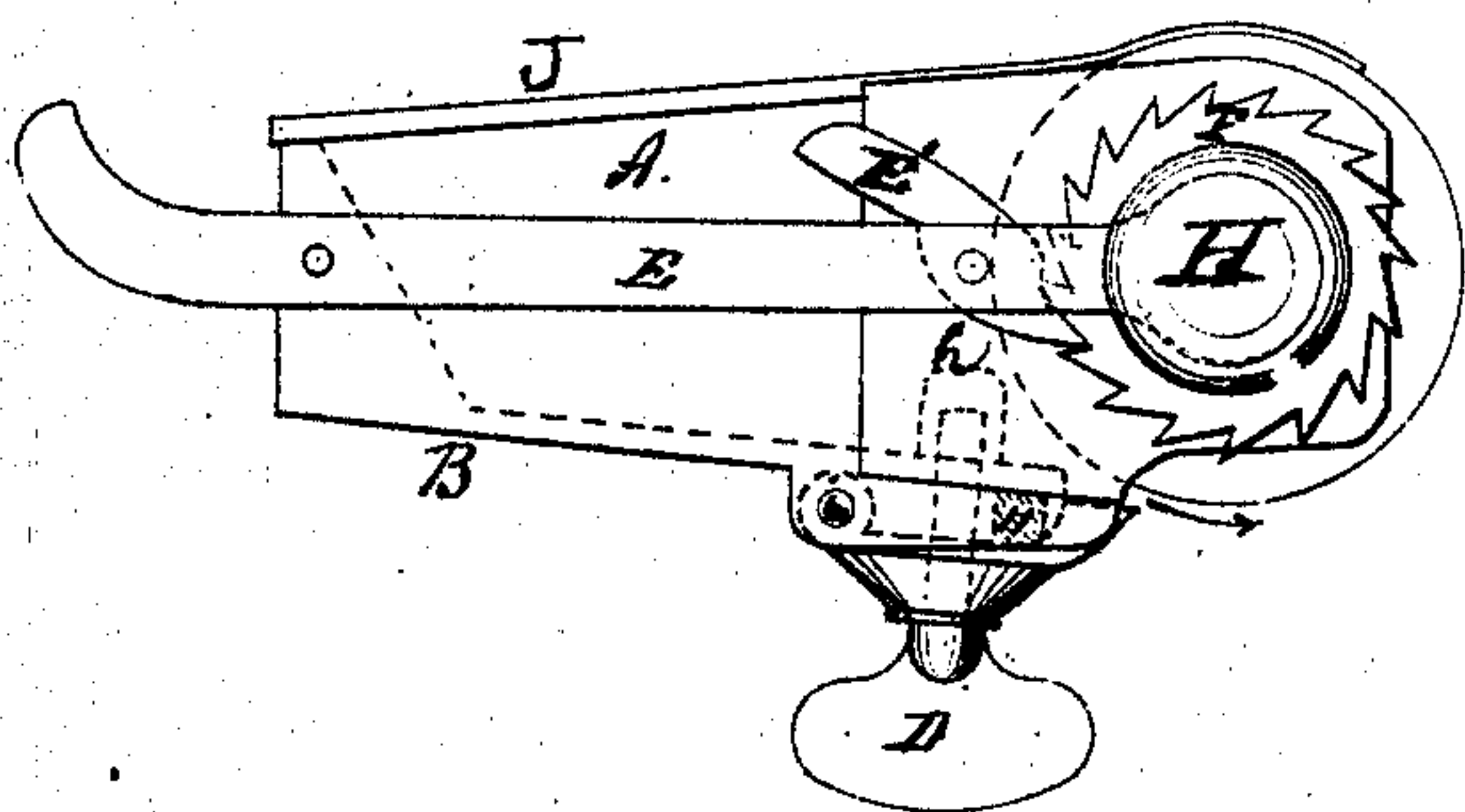


Fig. 2.

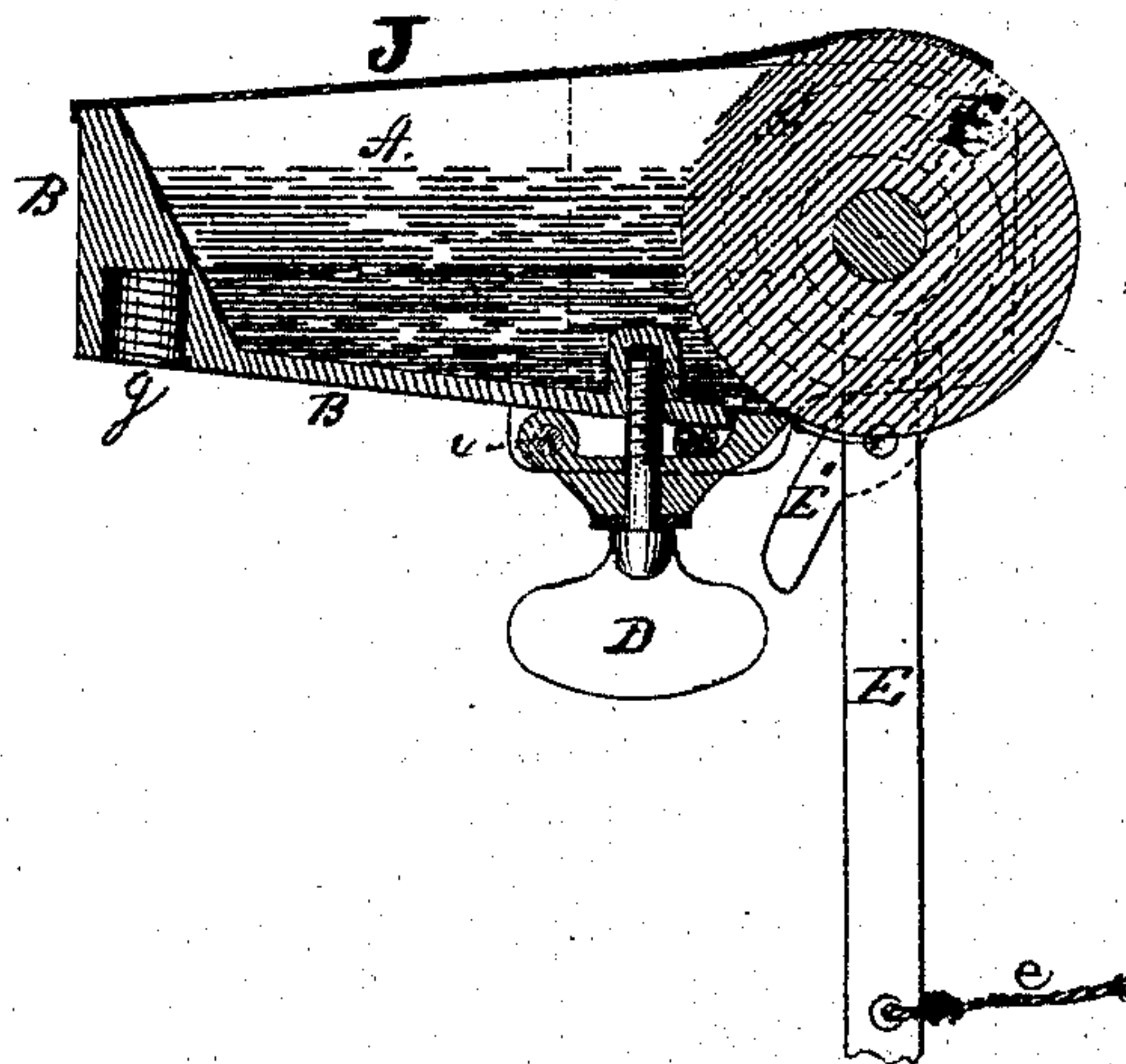


Fig. 3.

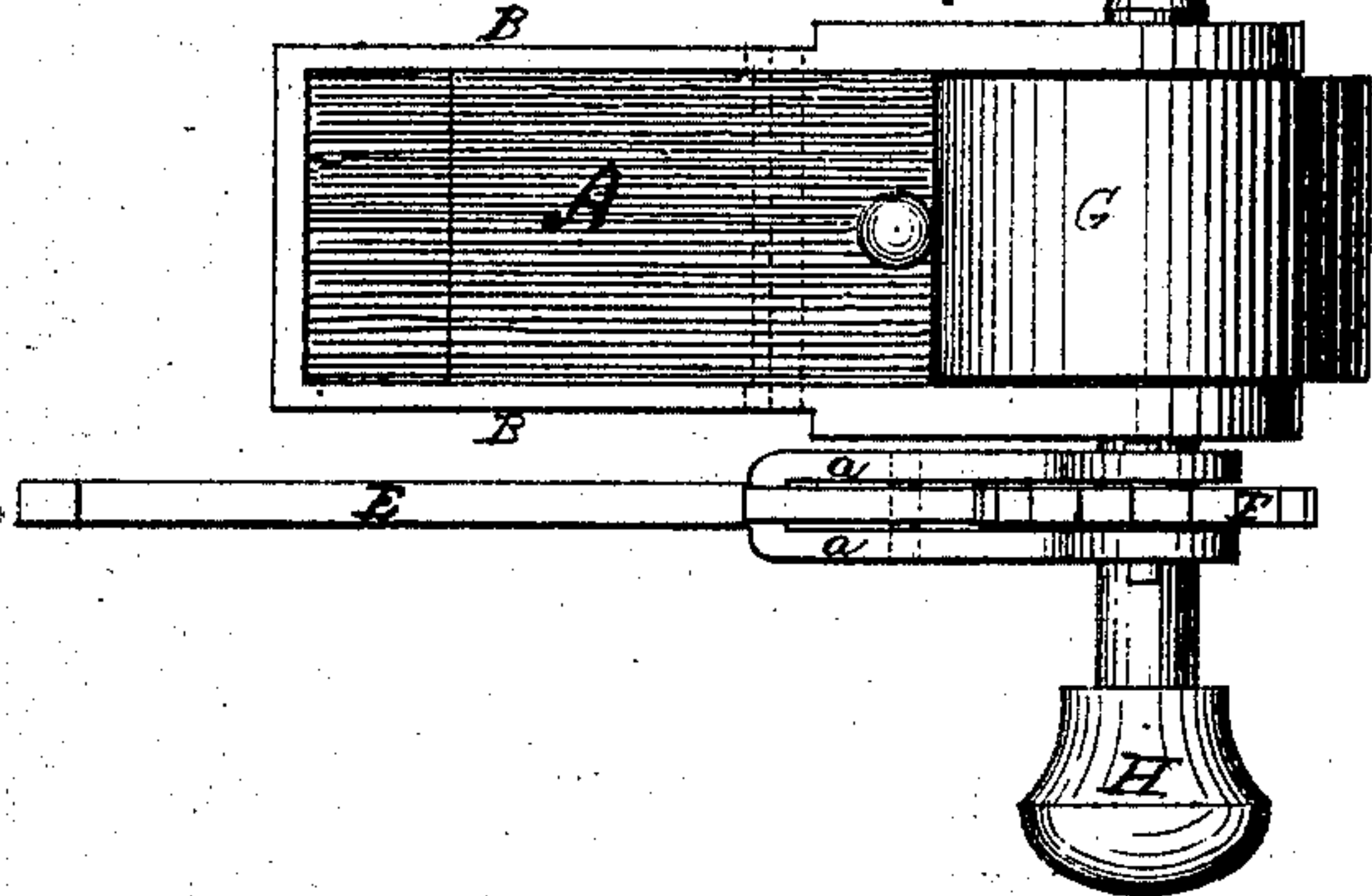
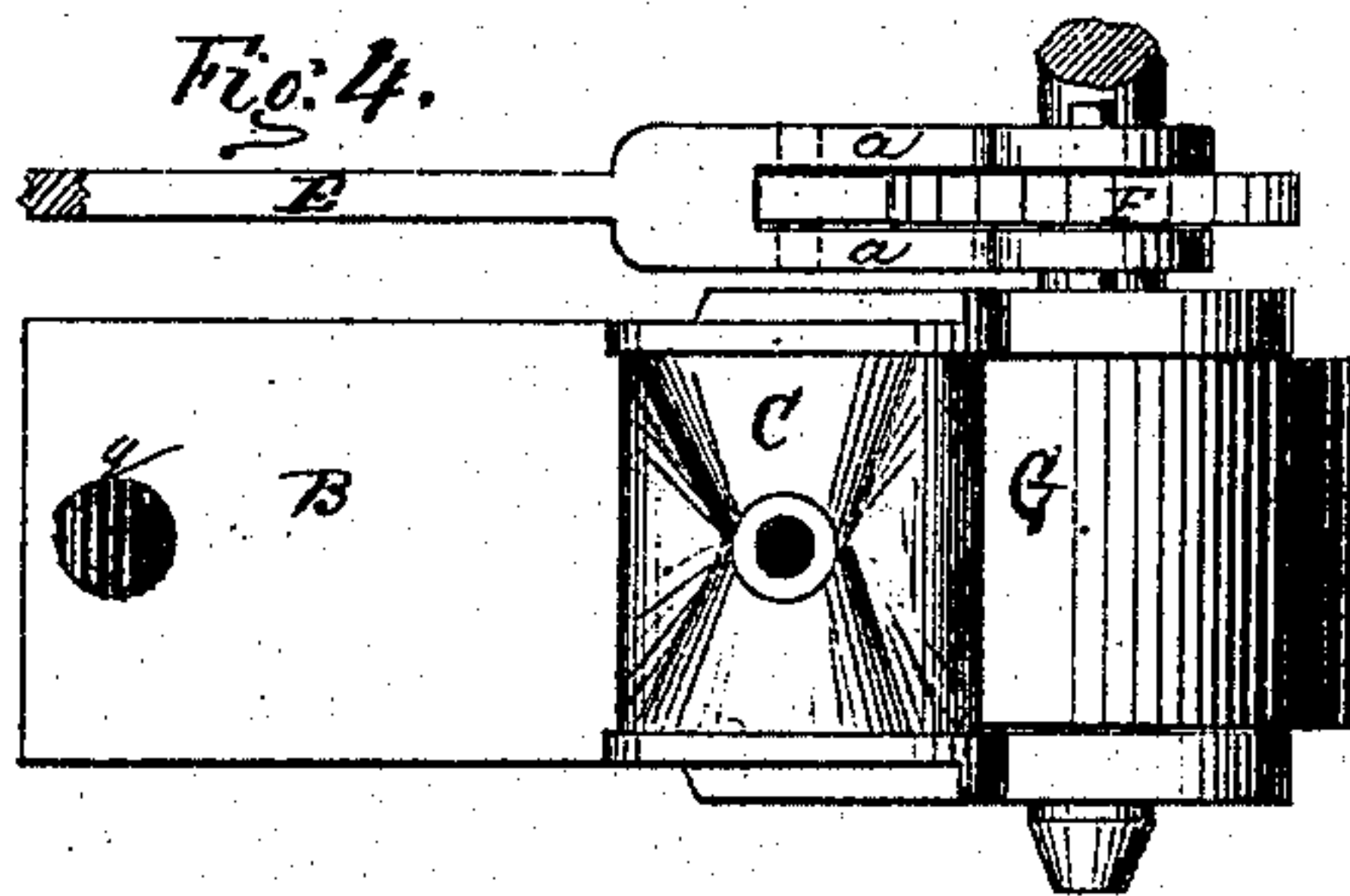


Fig. 4.



Witnesses:

G. M. W. W.
C. C. Swathin

Inventor:

William V. Wallace

By D. F. James,

his Atty.

UNITED STATES PATENT OFFICE.

WILLIAM V. WALLACE, OF NEW YORK, N. Y.

IMPROVEMENT IN INK-FOUNTAINS FOR PRINTING-PRESSES.

Specification forming part of Letters Patent No. 116,778, dated July 4, 1871.

To all whom it may concern:

Be it known that I, WILLIAM V. WALLACE, of the city, county, and State of New York, have invented a new and useful Improvement in Ink-Fountains for Printing-Presses; and I do 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 annexed drawing making part and parcel of this my specification.

This device is designed, more especially, for application to what is termed the "Gordon press," or others of similar construction. The inking-roller comes in contact with the fountain-roller, receiving therefrom its supply of ink to be transmitted to the types, &c.

In order to enable others to make and use this my invention, I will proceed to describe the same in its construction and operation.

Figure 1 is a side view; Fig. 2, a longitudinal vertical section of the same; Fig. 3 a top and Fig. 4, a bottom view of my improved ink-fountain.

The body of the fountain is made of cast or malleable iron in the form shown in the several figures, B B representing the outer sides thereof and A the inner space or receptacle for the ink. The back or left-hand portion of the casting is thicker than the rest, and has formed within its bottom side a hole, *g*, to admit a screw for the purposes of attachment to a printing-press. C is a metallic doctor or scraper pivoted at *i* within flanges formed upon the under side of the fountain, and projects forward from the same so as to nearly impinge upon the wheel G, as seen in Fig. 4. This cup is, in its inner surface, concave, and within it is placed elastic packing 11, as

shown in Fig. 1; and the supply of ink to the roller G is regulated by means of the set-screw D that passes through the cup into the stud *h* formed on the bottom of the fountain. H is the head of a shaft passing through the end of the fountain and supporting the wheel or roller G, the ratchet-wheel F, and the arms *a a* of the lever E, the ratchet-wheel being placed within or between said arms *a a* and moved and operated by the pawl E', which is also pivoted within said arms *a a*. The arm or lever E occupies a vertical position, as shown in Fig. 2, and is connected, by means of a cord or chain, *e*, to some portion of the press that draws the arm or lever forward, thereby causing the pawl to act upon the cog or ratchet-wheel, and, consequently, turning slowly the wheel G within the ink-fountain; the cord *e* being released the arm or lever E falls back to its natural position and is ready for another forward movement. J is a shield or cover to the fountain to prevent dust or dirt falling into the ink. This arrangement is exceedingly simple and the construction thereof inexpensive, causing a uniform supply of ink to the inking-roller. The studs upon the shaft are so arranged as to engage with the roller G, causing the latter to revolve with each movement of the ratchet-wheel.

What I claim as my invention, and desire to secure by Letters Patent, is—

The scraper C hinged to the bottom B of ink-reservoir A, and provided with the elastic packing 11 and set-screw D, substantially as and for the purpose herein set forth.

WILLIAM V. WALLACE.

Witnesses:

EDM. F. BROWN,
B. F. JAMES.