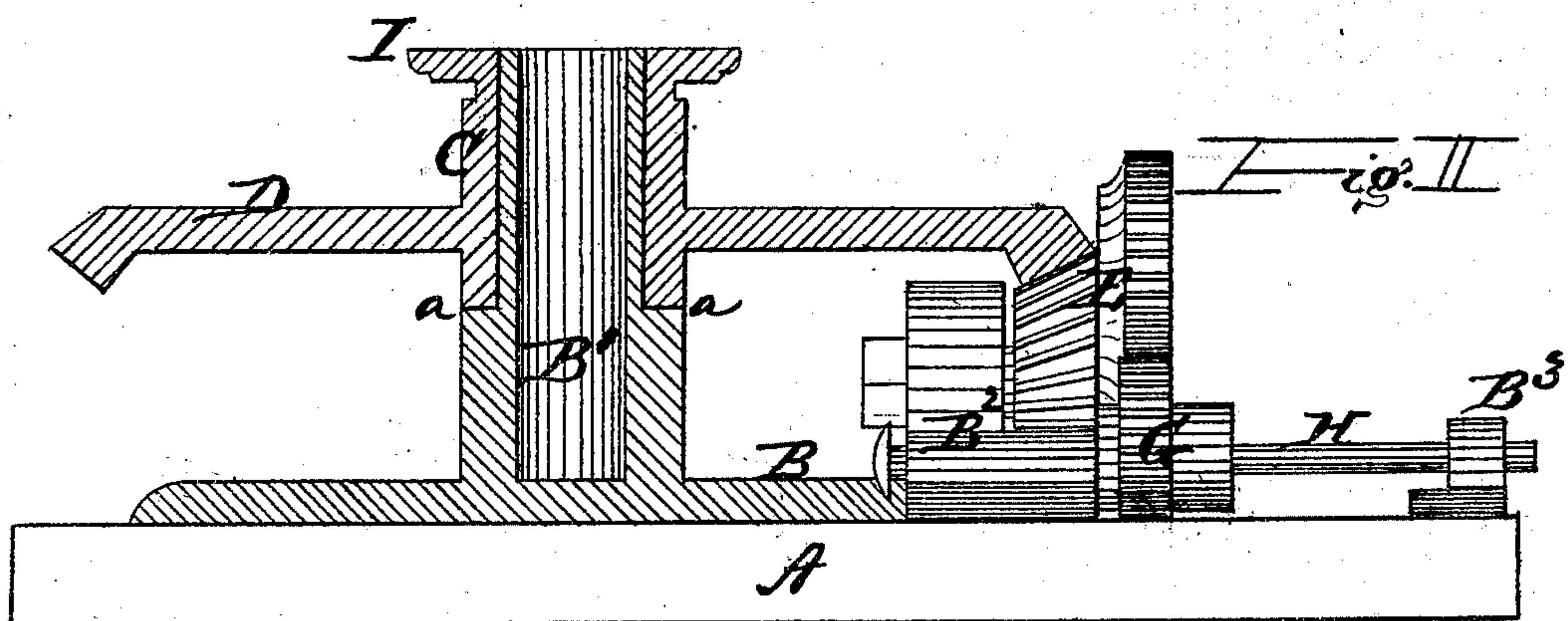
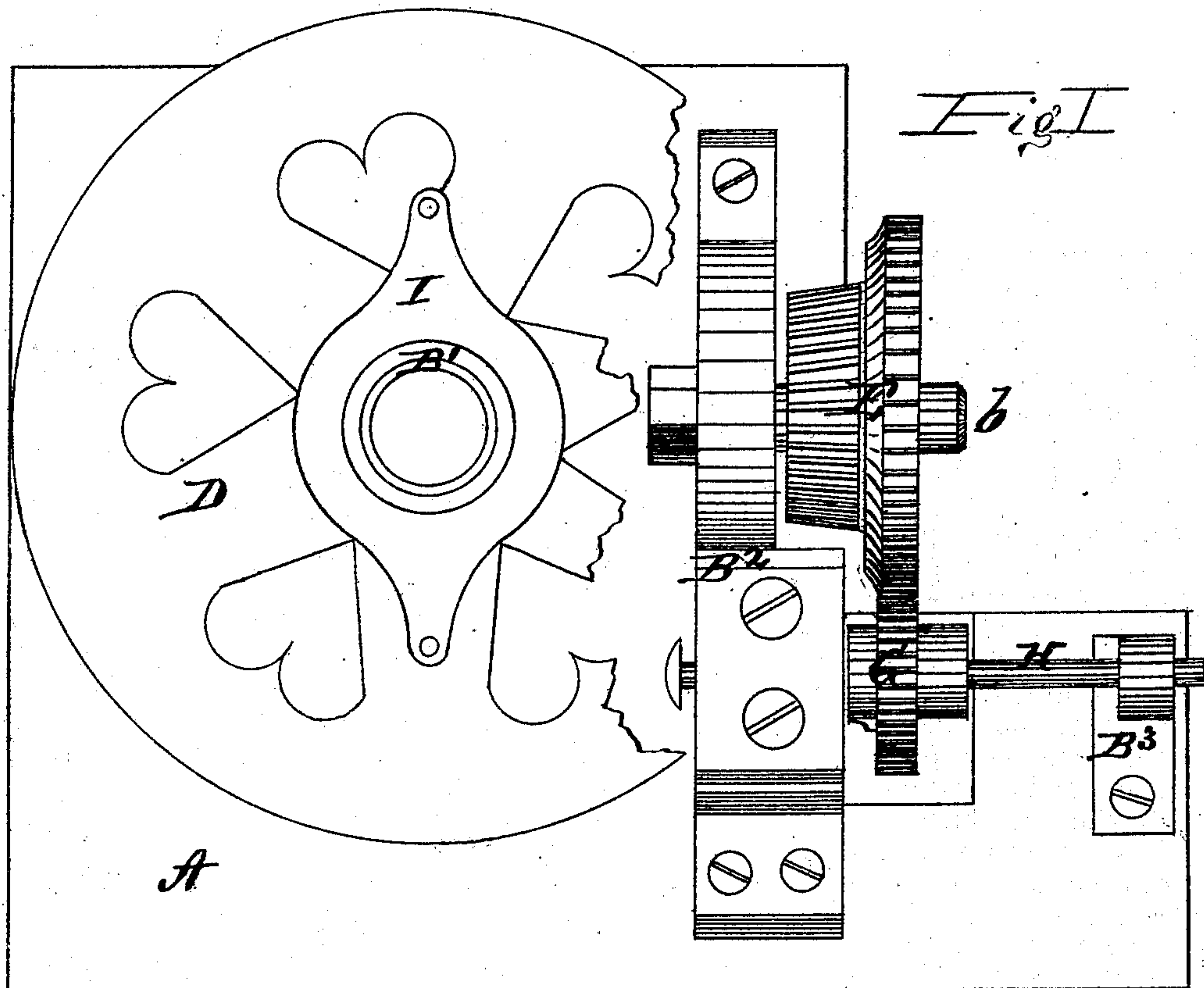


N. B. BROWN.

Improvement in Horse Power

No. 122,989.

Patented Jan. 23, 1872



WITNESSES:-

E. L. Ewert.

F. L. Curran.

INVENTOR:-

N. B. Brown

Alexander Murray

Attys.

UNITED STATES PATENT OFFICE.

NATHANIEL B. BROWN, OF ANTWERP, NEW YORK.

IMPROVEMENT IN HORSE-POWERS.

Specification forming part of Letters Patent No. 122,989, dated January 23, 1872.

To all whom it may concern:

Be it known that I, N. B. BROWN, of Antwerp, in the county of Jefferson and in the State of New York, have invented certain new and useful Improvements in Horse-Power; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "horse-power" for running a churn or other light machinery, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a plan view, and Fig. 2 a side view, part in section, of my horse-power.

A represents a frame, of wood or iron, to which are bolted the castings which support the entire horse-power. B is a circular flange or plate provided with a hollow upright post, B¹, in the center. This post has a shoulder, *a*, around its circumference, upon which the hub C of the large gear-wheel D rests. The hub C is elongated, as shown in Fig. 2, so as to cause

the gear to run true and steady. The plate B, with the hollow post B¹ and a long casting, B², are all cast in one piece and bolted to the frame A. In the casting B² is a stud, *b*, upon which hangs the gear and pinion E, said gear meshing with a pinion, G, upon a long shaft, H, which has its bearings in the casting B² and a separate casting, B³. The shaft H should, upon its outer end, be provided with a pulley to connect with the machinery to be driven by the power. On the upper end of the hub C is fitted a casting, I, upon which the sweep or lever is attached.

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

The within-described horse-power, consisting of the frame A, plate B, hollow post B¹ with shoulder *a*, elongated hub C, gear-wheel D, castings B², B³, and I, gear and pinion E, pinion G, and shaft H, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 13th day of July, 1871.

N. B. BROWN.

Witnesses:

JOSEPH WEMTAN,
HIRAM POLLEY.