No. 77,747.

PATENTED MAY 12, 1868.

G. W. MILLER & J. STEVENS.

HUB FASTENING FOR ECCENTRICS.

Fig: 1.

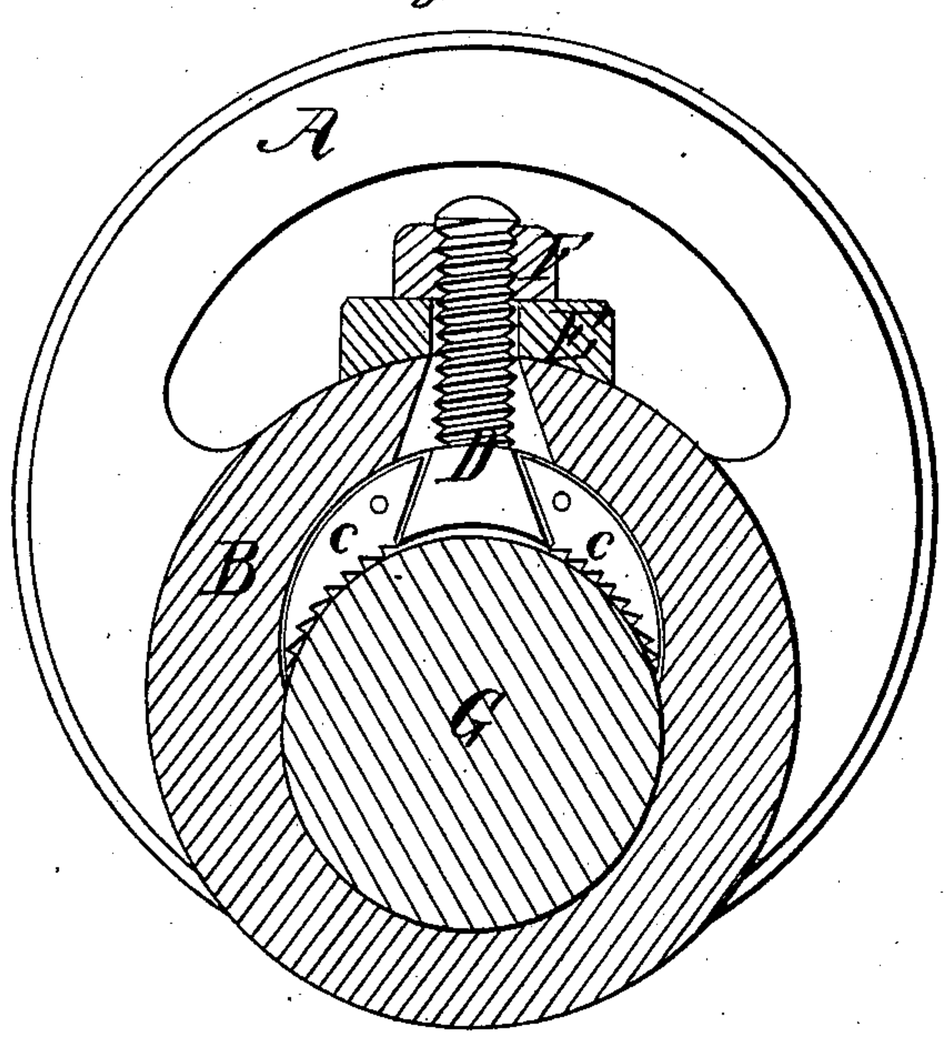


Fig: 2.

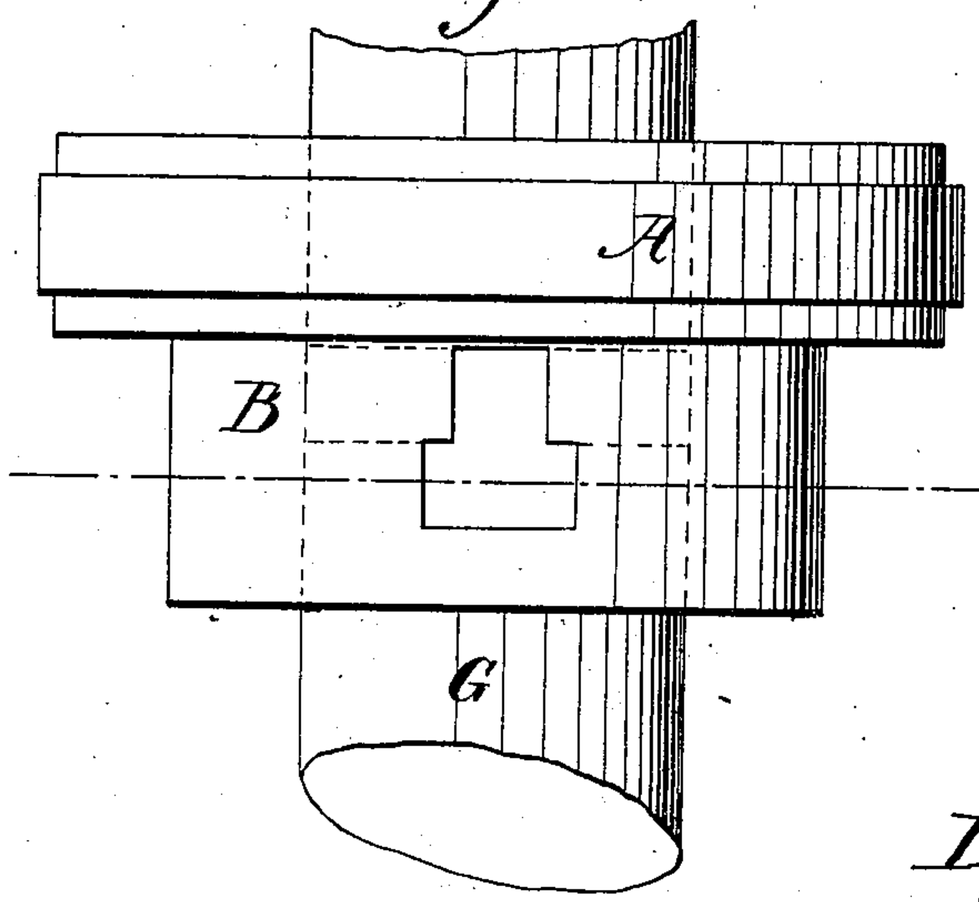
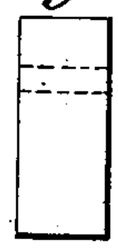


Fig: 3



Witnesses;
A. A. Seaman
V. D. Stokbridge

Inventor,
G. W. Miller &
Julius Stevens
Per.
Alexander Mason
Attys

United States Patent Office.

GEORGE W. MILLER AND JULIUS D. STEVENS, OF SCRANTON, PENNSYLVANIA.

Letters Patent No. 77,747, *dated May* 12, 1868.

IMPROVEMENT IN HUB-FASTENING FOR ECCENTRICS.

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

TO ALL WHOM IT MAY CONCERN:

Be it known that we, GEORGE W. MILLER and JULIUS D. STEVENS, of Scranton, in the county of Luzerne, and in the State of Pennsylvania, have invented certain new and useful Improvements in Hub-Fastening for Eccentrics; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

In the annexed drawings, making part of this specification, A represents an eccentric-wheel, and B its hub, which are cast together, and of any suitable size and material. Within the opening in the hub, through which the shaft to which the eccentric is to be secured passes, are two grooves, which are tapering in form. Within these grooves are placed two steel dies, C, which, in general form, are wedge-shaped, being convex on one side, and concave on the other. On their concave sides is formed a series of teeth. The large ends of these dies are bevelled, as represented. D represents a bolt, whose head is made flaring or wedge-shaped. This head fits between the two large ends of the dies. The bolt passes through the hub, and is provided on its outer end with a collar, E, and a nut, F. When the bolt is drawn outward, the tapering head forces the two dies apart, giving them an endwise motion. G represents the shaft, to which the hub is to be secured. When the dies move apart, their teeth bear firmly against the shaft, and clamp it on two sides, and thus serve to station the hub, and secure it rigidly to the shaft.

The dies, by means of the screw, can be made to clamp the shaft with any desirable pressure, so as to effectually prevent the hub from moving upon it.

This arrangement makes a very simple and permanent fastening, and one which will not damage the shaft.

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

The dies C C, and which are secured within the hub of the eccentric, and made to clamp the shaft, by means of a bolt with a tapering head, or other equivalent, as and for the purpose set forth.

In testimony that we claim the foregoing, we have hereunto set our hands and seals, this 2d day of March, 1868.

GEORGE W. MILLER. [L. S.]
JULIUS D. STEVENS. [L. S.]

Witnesses:
CHAS. A. STEVENS,
A. N. MARR.