(No Model.)

E. DICKINSON.

PEG FLOAT.

No. 262,019. Patented Aug. 1, 1882.

FIG. 1.

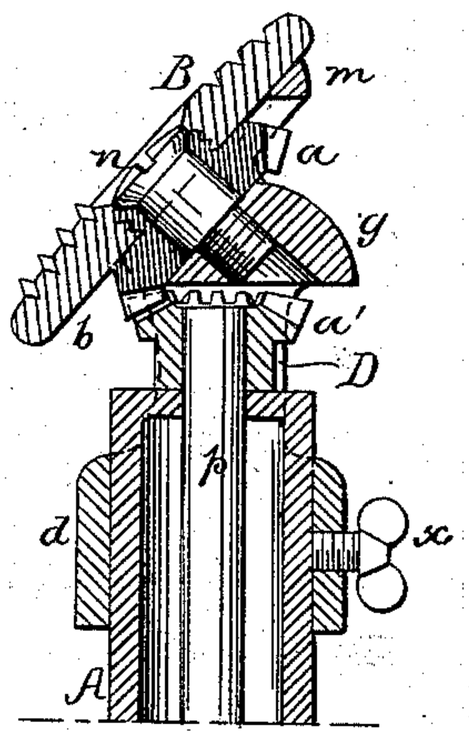


FIG. 2.

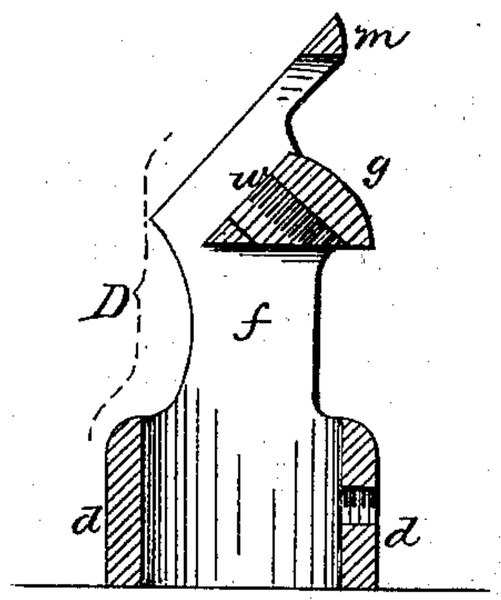
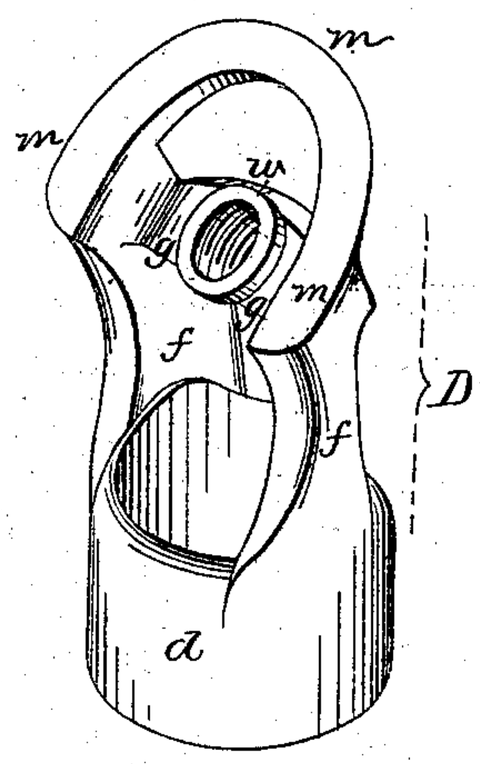


FIG. 3.



Witnesses:
Hamilton D. Turner.
D. L. Williams

Inventor:
Emanuel Dickinson
by his attorneys
Howson and Sons

UNITED STATES PATENT OFFICE.

EMANUEL DICKINSON, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO WM. H. HORN AND JOHN J. HORN, OF SAME PLACE.

PEG-FLOAT.

SPECIFICATION forming part of Letters Patent No. 262,019, dated August 1, 1882.

Application filed June 13, 1882. (No model.)

To all whom it may concern:

Be it known that I, EMANUEL DICKINSON, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Peg-Floats, of which the following is a specification.

My invention relates to certain improvements in the peg-float for which Letters Patent No. 214,555 were granted to me on the 22d day of April, 1879, the objects of my present improvements being to provide a firm bearing for the cutter, and to permit the ready adjustment of the cutter in respect to the upper end of the standard.

In the accompanying drawings, Figure 1 is a sectional view of the upper end of the standard, cutter, and cutter-supporting frame of a peg-float embodying my improvements; Fig. 2, a sectional view of the cutter-supporting frame with the cutter detached therefrom, and Fig. 3 a perspective view of said frame.

A represents part of the vertical tubular standard of the instrument; B, the cutter, and D the cutter-supporting frame.

The cutter B consists of a disk having on its outer surface rasp-like teeth or other cutting-points or cutting-edges, and having on the back a bevel-wheel, *a*, and a bearing-surface, *b*.

The cutter-supporting frame comprises a ring, *d*, arms *ff*, a bridge-piece, *g*, and a segmental bar, *m*.

The cutting-disk has a central threaded opening adapted for the reception of a threaded shank on the cog-wheel *a*, and the cutter is confined to the supporting-frame by means of a central screw, *n*, adapted to a central opening in said shank, the reduced and threaded end of the screw being adapted to a threaded opening in the bridge-piece *g*. The shoulder formed by reducing the diameter of the threaded portion of the screw prevents such rigid confinement of the cog-wheel *a* to the frame D as to interfere with the free turning of the cutter on the frame, said cutter having, besides the central bearing, *w*, afforded by the cog-wheel *a* and bridge-piece *g*, an additional bearing, due to the annular face *b* on the rear of the cutter and the segmental bar *m* on the frame D. By this means the cutter is firmly supported, and yet is free to turn on the frame D, the rotation of the cutter being effected, as in the former instrument, by means of a bevel-pinion, *a'*, at the top of a vertical shaft, *p*, in the standard A.

The ring *d* of the frame D can be turned on the standard A so as to adjust the said frame and the cutter B to any desired position in respect to the standard, the frame being secured, after adjustment, by tightening a set-screw, *x*, with which the ring *d* is provided.

Instead of making the bearing-bar *m* in the form of a segment, as shown, said bar may, if desired, be continued to form a complete ring; but this is not considered necessary, as in the operation of the instrument the strain is exerted upon the upper portion of the cutter, which is directly supported by the bar *m*.

I claim as my invention—

1. The combination, in a peg-float, of the rotary cutter B, having an annular bearing-surface, *b*, with a supporting-frame, D, having a segment or ring, *m*, adapted to said bearing-surface *b* of the cutter, as set forth.

2. The combination, in a peg-float, of the standard A, the rotary cutter B, having a bevel-wheel, *a*, and annular bearing-surface *b*, and the frame D, having a central bearing, *w*, and segment or ring *m*, as set forth.

3. The combination of the standard A and its shaft *p*, having bevel-wheel *a'*, with the rotary cutter B and the supporting-frame D, having a ring, *d*, adapted to turn on the upper end of the standard A, and having a set-screw, *x*, whereby it may be secured thereto after adjustment, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EMANUEL DICKINSON.

Witnesses:
HARRY DRURY,
HARRY SMITH.