(No Model.)

J. HARWOOD.

CLOCK MOVEMENT HOLDER.

No. 405,258. Patented June 18, 1889.

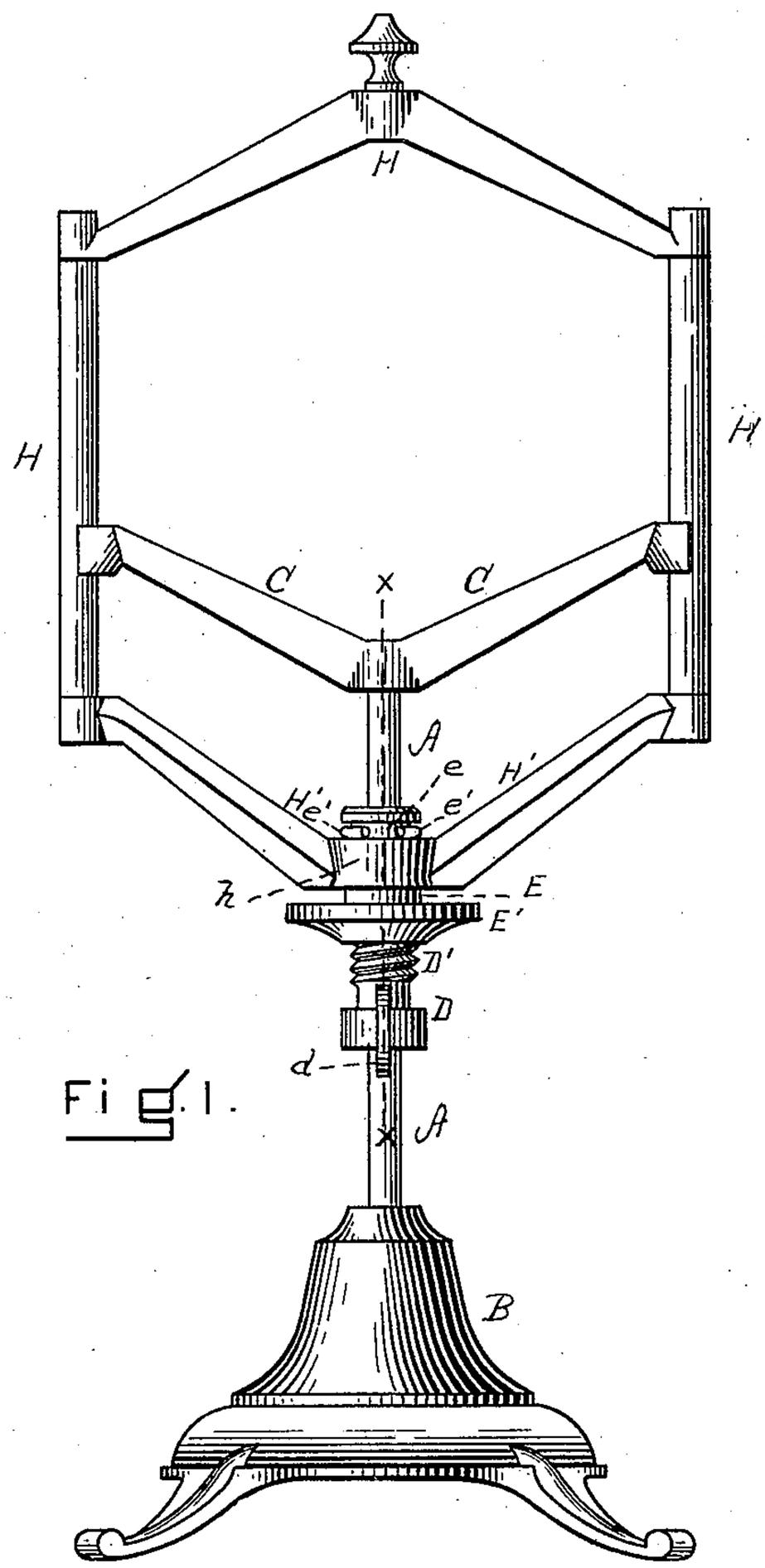

Fig. 1.

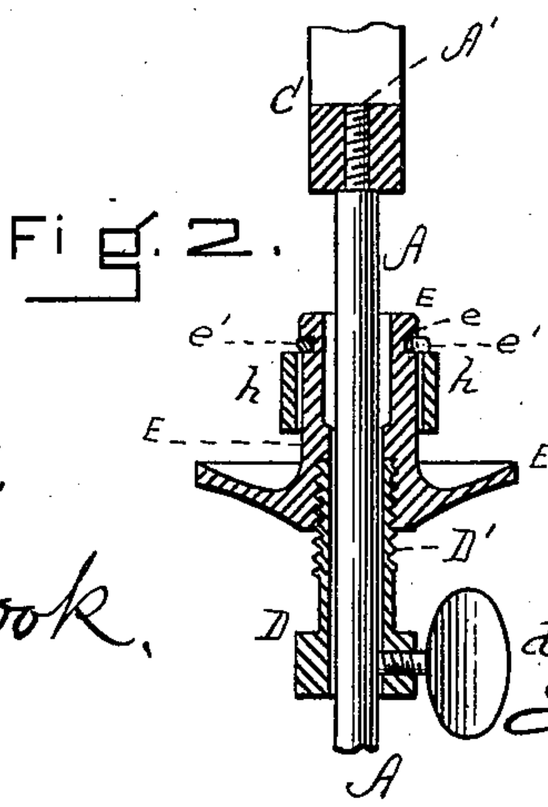

Fig. 2.

WITNESSES

J. M. Hartnett.

H. W. Easterbrook.

INVENTOR.

John Harwood.

By his Atty

Henry W. Williams

UNITED STATES PATENT OFFICE.

JOHN HARWOOD, OF SOMERVILLE, MASSACHUSETTS.

CLOCK-MOVEMENT HOLDER.

SPECIFICATION forming part of Letters Patent No. 405,258, dated June 18, 1889.

Application filed March 16, 1889. Serial No. 303,609. (No model.)

To all whom it may concern:

Be it known that I, JOHN HARWOOD, of Somerville, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Clock-Movement Holders, of which the following is a specification.

My improvement relates particularly to that class of devices which are designed for holding or supporting French clock-movements while being set up, repaired, oiled, or regulated; and it consists in a novel construction and arrangement of parts, as hereinafter described, whereby a more convenient and readily and exactly adjustable device is produced than is now in common use.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is an elevation of my improved movement-holding device. Fig. 2 is a vertical section on line X, Fig. 1.

A is the supporting-standard fixed in the pedestal B and having its upper end threaded at A′. The cross-head C, of the ordinary shape, is supported by this standard, being centrally bored and threaded to screw upon its upper end A.

D is a tube externally threaded, as shown at D′, and held adjustably as to height upon the standard A by the set-screw *d*.

E is a tubular thumb-piece whose flange E′ is adapted to be grasped by the thumb and fingers provided with an annular groove *e*.

H is the frame of the ordinary hexagonal shape, its lower bar H′ being provided with a ring or sleeve *h* surrounding and resting upon the body of the thumb-piece E. A curved spring *e′*, lying in the groove *h*, prevents the frame from being lifted off the thumb-piece.

When a clock-movement is to be placed in position—*i. e.*, upon the cross-head and between it and the top of the frame—the frame is raised as desired and secured in approximately the proper position by turning up the set-screw *d*. Then exact adjustment is had by turning the thumb-piece E, which of course lowers the frame, until the movement is tightly and securely held between the cross-head and the upper part of the frame. The cross-head C is readily removed by unscrewing it from the standard A and tipping it without any necessity for cutting notches in the frame.

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

The herein-described improved device for holding clock-movements, consisting, essentially, of the standard A, threaded at its upper end and supported by a pedestal, externally-threaded tube D and set-screw *d*, tubular thumb-piece E, provided with the annular groove *e* and spring *e′*, cross-head C, and frame H H′ *h*, supported by said thumb-piece, substantially as and for the purpose set forth.

JOHN HARWOOD.

Witnesses:
HENRY W. WILLIAMS,
J. M. HARTNET.