

No. 721,927.

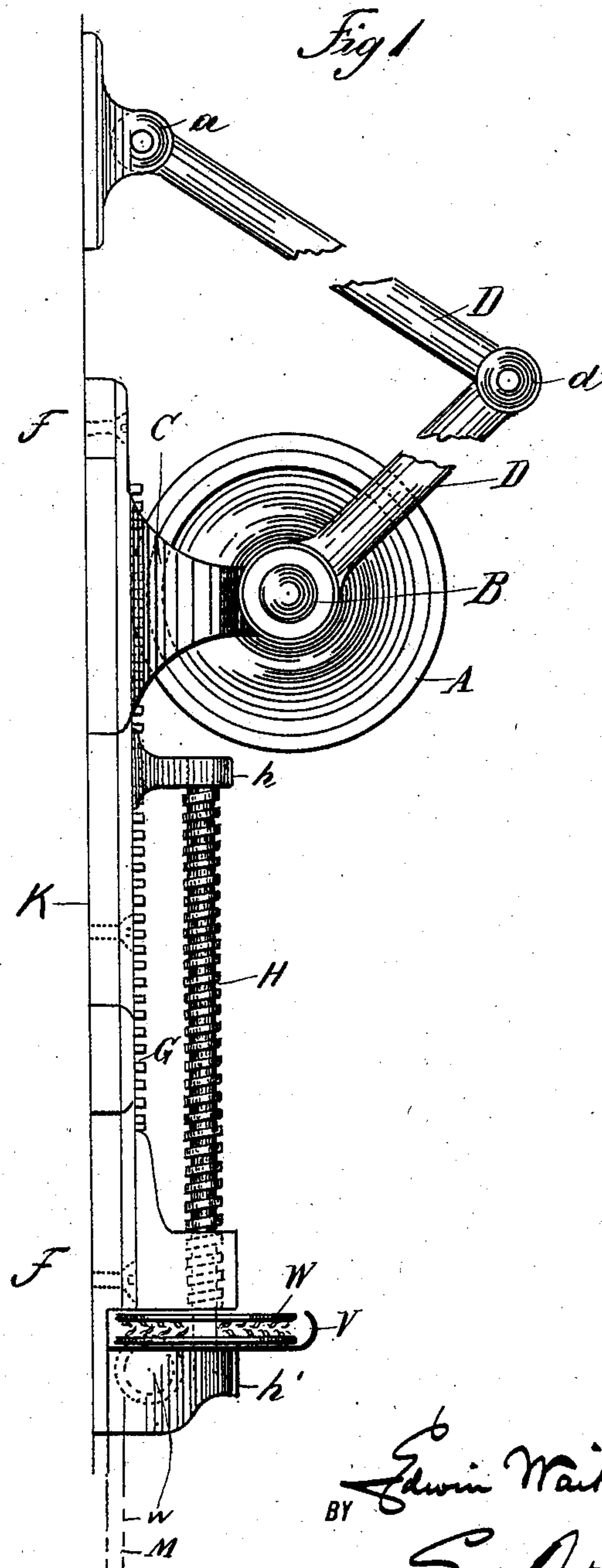
PATENTED MAR. 3, 1903.

E. WAIT.
APPARATUS FOR OPERATING TRANSOMS.

APPLICATION FILED JUNE 18, 1901.

NO MODEL.

2 SHEETS—SHEET 1.



WITNESSES

F. A. Stewart
L. R. Bayer

BY *Edwin Wait* INVENTOR

Edgar Bates
ATTORNEYS

No. 721,927.

PATENTED MAR. 3, 1903.

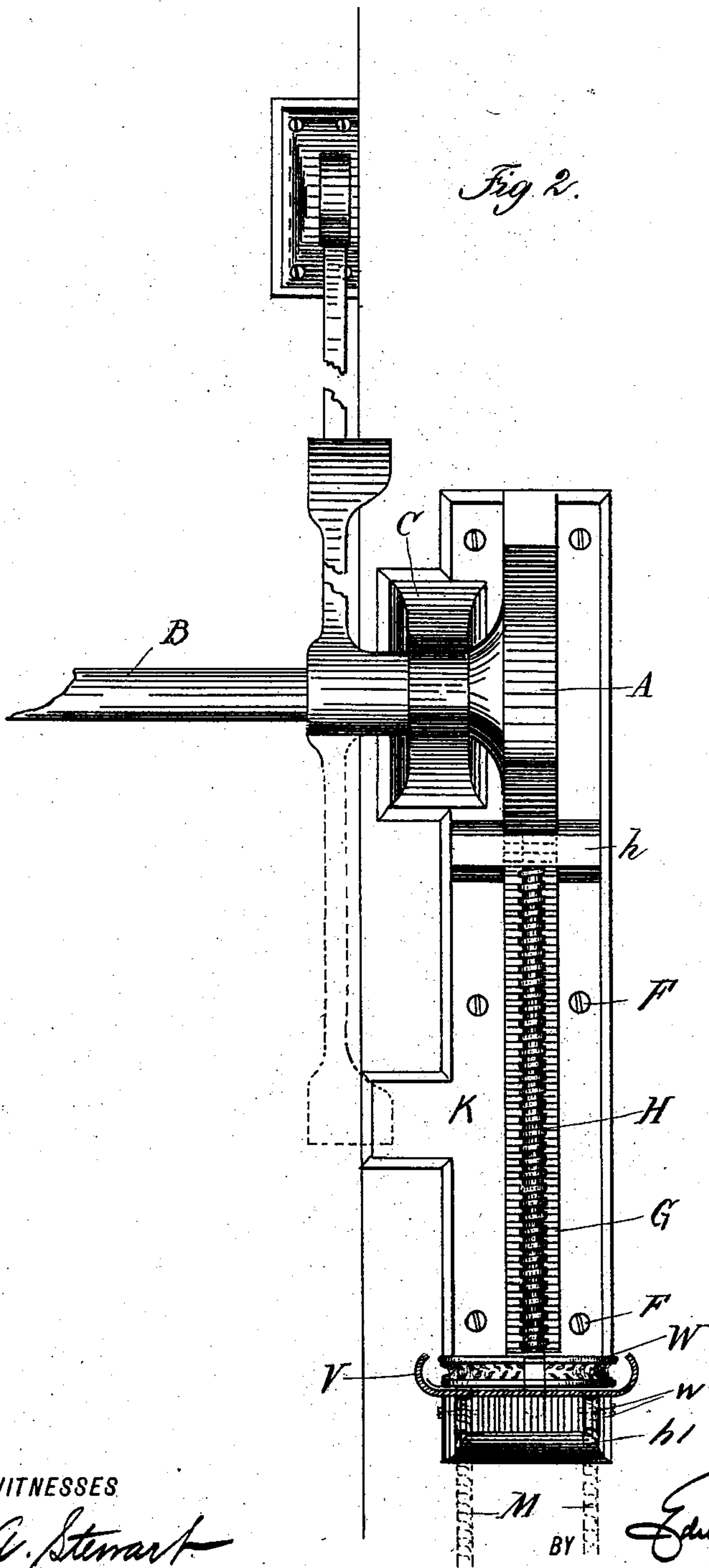
E. WAIT.

APPARATUS FOR OPERATING TRANSOMS.

APPLICATION FILED JUNE 18, 1901.

NO MODEL.

2 SHEETS—SHEET 2.



WITNESSES

L. A. Stewart
L. R. Bayer

BY

Edwin Wait INVENTOR
Edgar Hatch ATTORNEYS

UNITED STATES PATENT OFFICE.

EDWIN WAIT, OF EDINBOROUGH, SCOTLAND.

APPARATUS FOR OPERATING TRANSOMS.

SPECIFICATION forming part of Letters Patent No. 721,927, dated March 3, 1903.

Application filed June 18, 1901. Serial No. 65,081. (No model.)

To all whom it may concern:

Be it known that I, EDWIN WAIT, a subject of the King of Great Britain, residing at Edinborough, Scotland, have invented certain new and useful Improvements in Apparatus for Operating Fanlights, Skylights, Shutters, and Ventilators, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved apparatus for operating fanlights, transoms, shutters, and ventilators, which shall be of an extremely simple and cheap form of construction and easy of operation, which will permit of the instantaneous shifting of the fanlight, &c., into any desired position, and the securing of the same therein against movement.

To such ends this invention consists, in substance, of a combination of levers secured to the transom, &c., and the adjacent frame, a screw device for actuating the levers so as to open and close the transom, and means for actuating the screw device, all as fully hereinafter shown and described.

In the accompanying drawings, forming part of this specification, in which like letters of reference designate corresponding parts in the several views, Figure 1 is a side and Fig. 2 a front view of my improved fanlight, &c., actuating and securing apparatus in its simplest form, the full lines showing the position assumed by the parts when the fanlight or transom is in the closed and the dotted lines the position when the same is in the open position.

In the drawings the device is shown as applied to a fanlight or transom, as only slight and self-evident modifications are necessary to adapt the same for use with shutters, skylights, and ventilators.

The form of device which I prefer is that shown in the drawings, wherein the reference-letter B designates a horizontal bar or shaft of any desired shape in cross-section, which is revolvably or vibratorily mounted in bearings C, affixed to the casing adjacent to the transom. Rigidly fixed to the shaft is a lever D, having a knuckle-joint *d*, which is pivoted to the transom at *a*, and rigidly secured at the end of the shaft B is a gear

wheel or pinion A, which meshes with a rack-gear G, which reciprocates in a slideway or groove formed to receive it in the metal back plate K, which is formed integral with the journal box or bearing C and is secured to the door-frame by means of screws F. Secured to one end of the rack-gear G is a plate or boss Q, provided with a female screw-thread, through which passes the screw-threaded actuating-rod H, one end of which is supported in a journal-bearing *h* and the other in a like bearing *h'*, both of which are secured to the back plate K. Rigidly secured to the lower end of the actuating screw-rod H is a grooved wheel W, adjacent to which are mounted in horizontal bearings the grooved guide-wheels *w*, and around the wheel W and over the guide-wheels *w* passes an actuating-cord M, usually endless, by which the device is operated, such cord being held in position on the wheel W and prevented from slipping off the same by the guard V.

To operate the device, it is only necessary to draw down the cord M in the proper direction, when the consequent rotation of the wheel W and screw H, acting on the boss Q, will cause a reciprocation of the rack-gear G, and the consequent vibration of the gear wheel or pinion transmitted to the knuckle-jointed lever D through the shaft B will, according to the direction of such rotations, open or close the transom.

This apparatus is simple in construction and operation and comparatively inexpensive and perfectly adapted to accomplish the result for which it is intended, and I reserve the right to make all such alterations therein as fairly come within the scope of the invention.

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

In an apparatus of the class described, a plate or support, a rack-bar mounted longitudinally therein, a shaft arranged at right angles to said rack-bar and provided with a gear-wheel operating in connection therewith, a knuckle-jointed lever connected with said shaft and adapted to operate a transom or other device, and means for moving the rack-bar longitudinally of the plate or support, consisting of a screw-threaded shaft in

operative connection therewith and provided
with a wheel at one end, and a cord passed
around said wheel, and supported means
whereby said wheel and shaft may be turned
5 in either direction, substantially as shown
and described.

In testimony that I claim the foregoing as

my invention I have signed my name, in pres-
ence of the subscribing witnesses, this 2d
day of May, 1901.

EDWIN WAIT.

Witnesses:

JOHN GEORGE STOCKAN,
JAMES JOHNSTONE JARDINE.