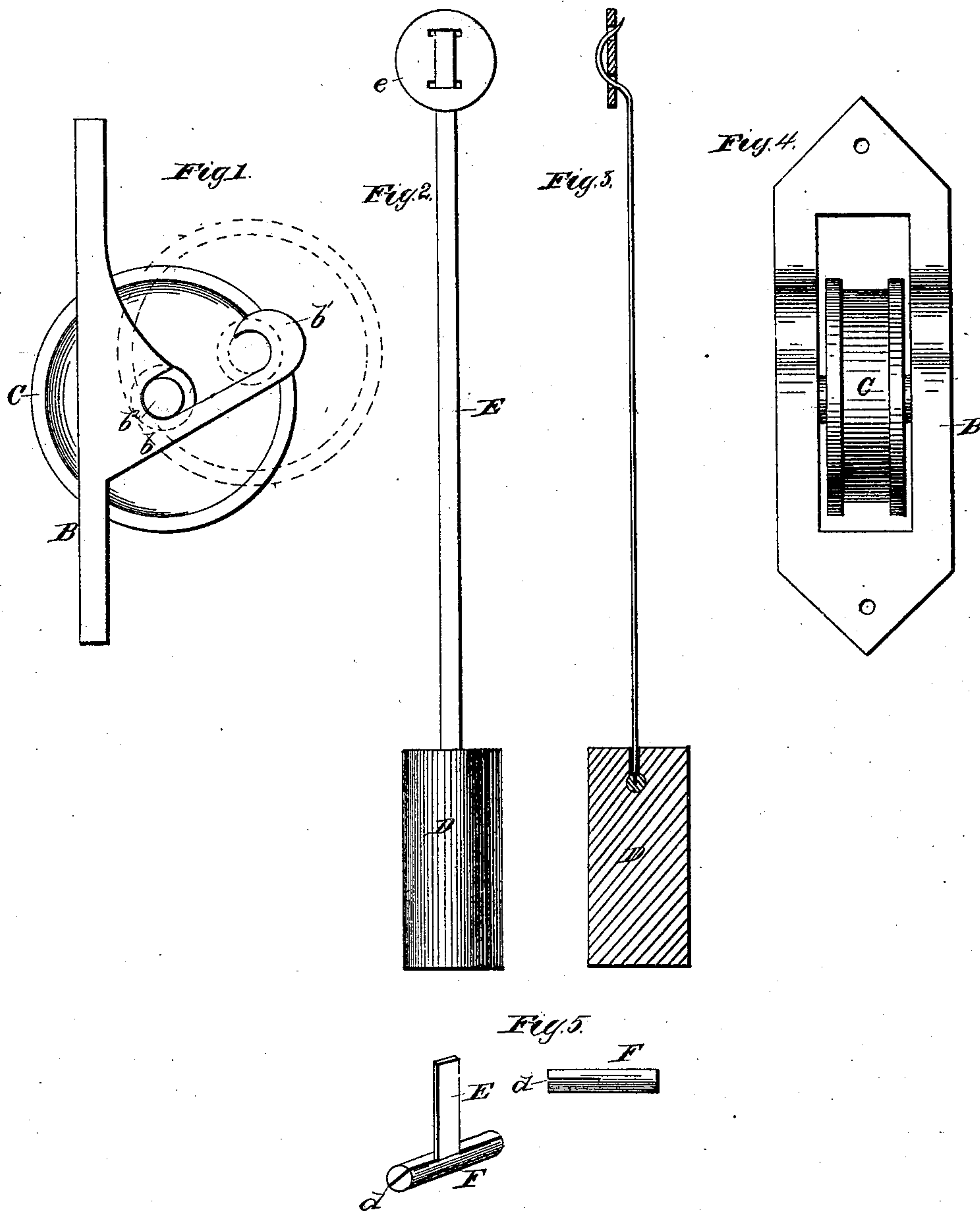


(No Model.)

T. BREEN.  
SASH CORD PULLEY.

No. 253,672.

Patented Feb. 14, 1882.



WITNESSES

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# UNITED STATES PATENT OFFICE.

THOMAS BREEN, OF KNOWLTON, PENNSYLVANIA.

## SASH-CORD PULLEY.

SPECIFICATION forming part of Letters Patent No. 253,672, dated February 14, 1882.

Application filed May 24, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS BREEN, a citizen of the United States of America, residing at Knowlton, in the county of Delaware and State of Pennsylvania, have invented certain new and useful Improvements in Window Frames and Hangings; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

In the drawings, Figures 1 and 4 are a side and a face view of the adjustable pulley and its bracket; and Figs. 2, 3, and 5 illustrate detail views, showing a weight and mechanism for suspending it.

This invention appertains to improvements in sash-balances embodying weights and elevating and holding mechanism, having for its object to permit the sash to be readily raised and lowered; and to these ends it consists of the combination and arrangement of the parts, substantially as hereinafter more fully set forth.

Referring to the accompanying drawings, B is the pulley-bracket, which consists of a cast rectangular or other shaped frame screwed or bolted in mortises in the upper end of the sides of the window-frame, and upwardly-inclined arms *b*, provided with hooked ends *b'*, to limit or arrest the upward movement of the weight-pulley axes. At the foot of these arms are sockets or open eyes *b*<sup>2</sup>, which form bearings for the pulley-axes when the sashes are low-

ered. These arms *b* form ways up which the pulley-axes slide or revolve as the sash is raised by the weight, the suspending medium of the weight passing over the pulley, thus taking the said pulley out of the way of the ascending or approaching sash.

C is the pulley with its axis adapted to bear upon and revolve or slide up the inclined ways *b'*, there being two ways for each sash, one arranged upon each side of the window-frame.

The suspending medium or metallic strap E passes over the pulley C, and is secured to the sash preferably by inserting it through two openings, one in advance of the other, in the disk or plate *e*, which is fastened or screwed to the sash.

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

1. The combination, with a window-sash and its frame, of the weighted straps or their equivalents, E, and the pulleys C, adapted to slide out of the way of the ascending or approaching sash, substantially as and for the purpose set forth.

2. The combination, with the weighted metallic strap or band E, of the pulley C and its bracket B, having the upwardly-inclined ways or arms *b' b'*, substantially as and for the purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

THOMAS BREEN.

Witnesses:

GEO. R. HERRICK,  
JAS. A. BAXTER.