

W. M. GRISCOM.  
Sash-Cord Guides.

No. 145,863.

Patented Dec. 23, 1873.

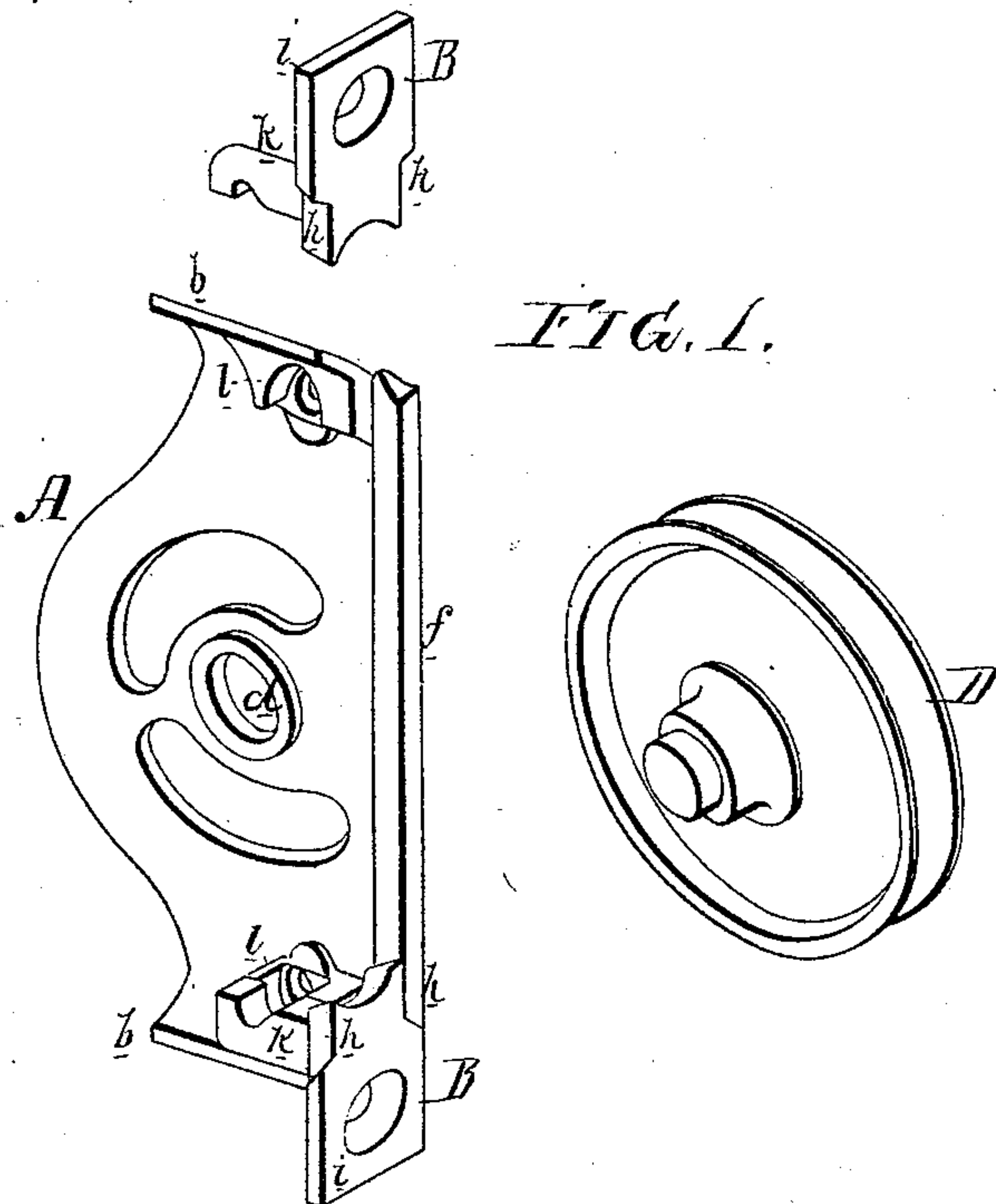


FIG. 2.

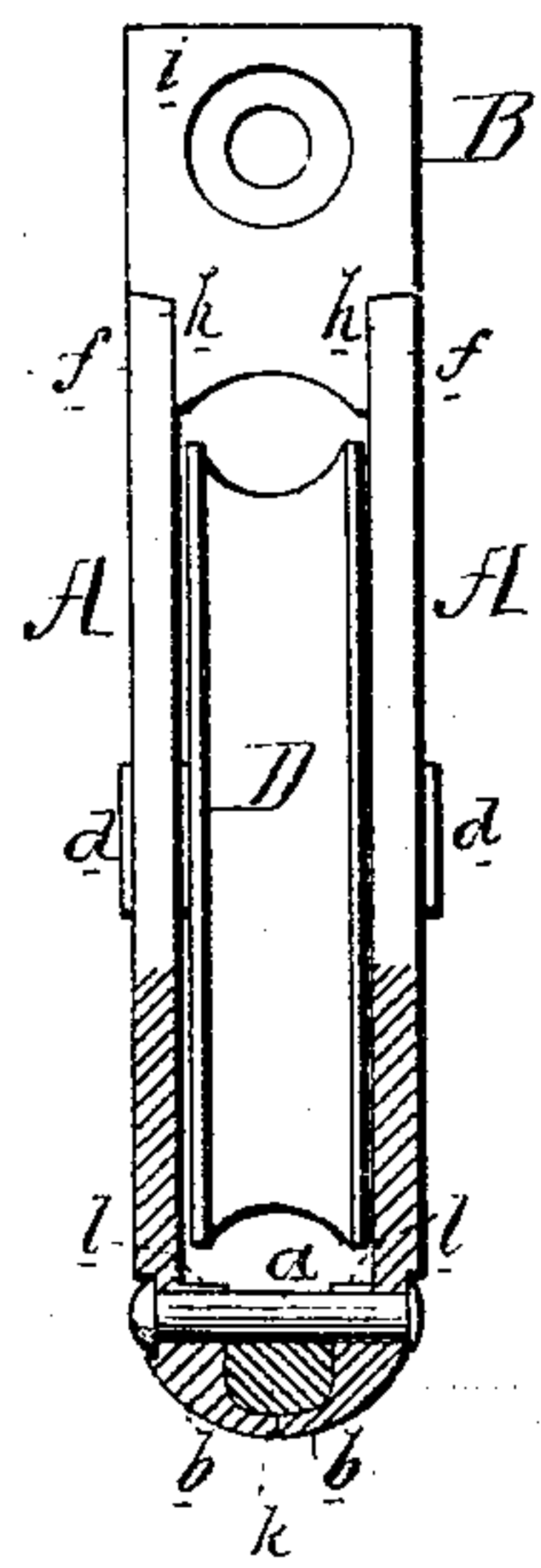
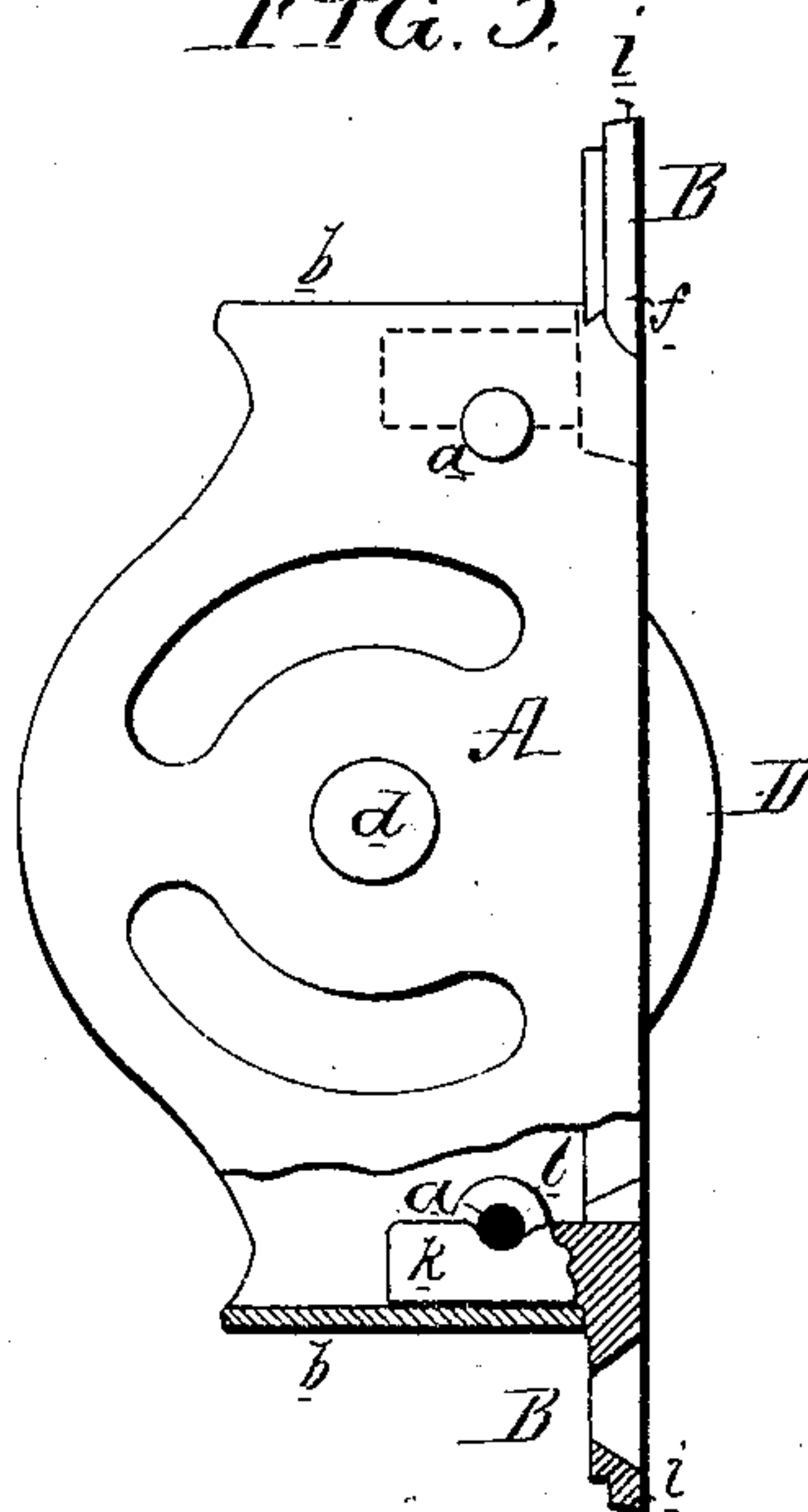


FIG. 3.



Witnesses,

Thomas M. Ryan  
Harry Smith

William M. Griscom  
by his Attys.  
Howson and Son

# UNITED STATES PATENT OFFICE.

WILLIAM M. GRISCOM, OF READING, PENNSYLVANIA, ASSIGNOR TO READING  
HARDWARE MANUFACTURING COMPANY, OF SAME PLACE.

## IMPROVEMENT IN SASH-CORD GUIDES.

Specification forming part of Letters Patent No. **145,863**, dated December 23, 1873; application filed  
August 23, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM M. GRISCOM, of Reading, Berks county and State of Pennsylvania, have invented an Improved Window-Pulley, of which the following is a specification:

My invention relates to an improvement in the class of pulleys commonly let into window-frames for the guidance of the cords attached to the sashes and balancing-weights, the object of my invention being to economize and facilitate the construction of such pulleys.

I attain this object in the manner best observed in the perspective view, Figure 1, and edge view, Fig. 2, of the accompanying drawing, by constructing the casing of the pulley with two side plates or cheek-pieces, A A, and two end pieces, B B, the latter being adapted to and held in place partly by the said cheek-pieces and partly by the connecting-rivets *a a*, as shown. The side plates or cheek-pieces A A are cast separately, as are also the end pieces B B, the former being curved at their upper and lower edges *b b*, which meet and thus form a pocket for the reception of the grooved wheel D, the journals of which are adapted to bearings *d* in the said cheek-pieces, all as shown in Fig. 2, and in the side view, Fig. 3, of the drawing. On the front edge of each of the cheek-pieces is a rib, *f*, adapted, at its upper and lower ends, to the recessed edges *h* of the flanged portions *i* of the end pieces B, the lat-

ter, with the said ribs, thus forming a flush face for the pulley-casing, and defining the shape of the opening in the front of the same for the passage of the sash-cord and grooved wheel D. Each end piece B has a hooked projection, *k*, which extends into the space between the cheek-pieces, fitting snugly against the curved upper and lower edges *b*, and between projections *l* on the inner sides of the said cheek-pieces, and being retained in position partly by the latter and partly by the connecting-rivets *a a*, which pass through holes in the cheek-pieces and across the hooked portions of the said projections *k*, as shown in Figs. 2 and 3 of the drawing.

I prefer that the projections *k* of the end pieces should be hooked, as above described; but they might be formed with holes for the passage of the connecting-rivets.

I claim as my invention—

A window-pulley in which are combined two cheek-pieces, A A, and two end pieces, B B, the latter being adapted to and held in place partly by the said cheek-pieces and partly by the connecting-rods *a a*, as set forth.

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

WILLIAM M. GRISCOM.

Witnesses:

H. WEIGEL,  
S. D. DYER.