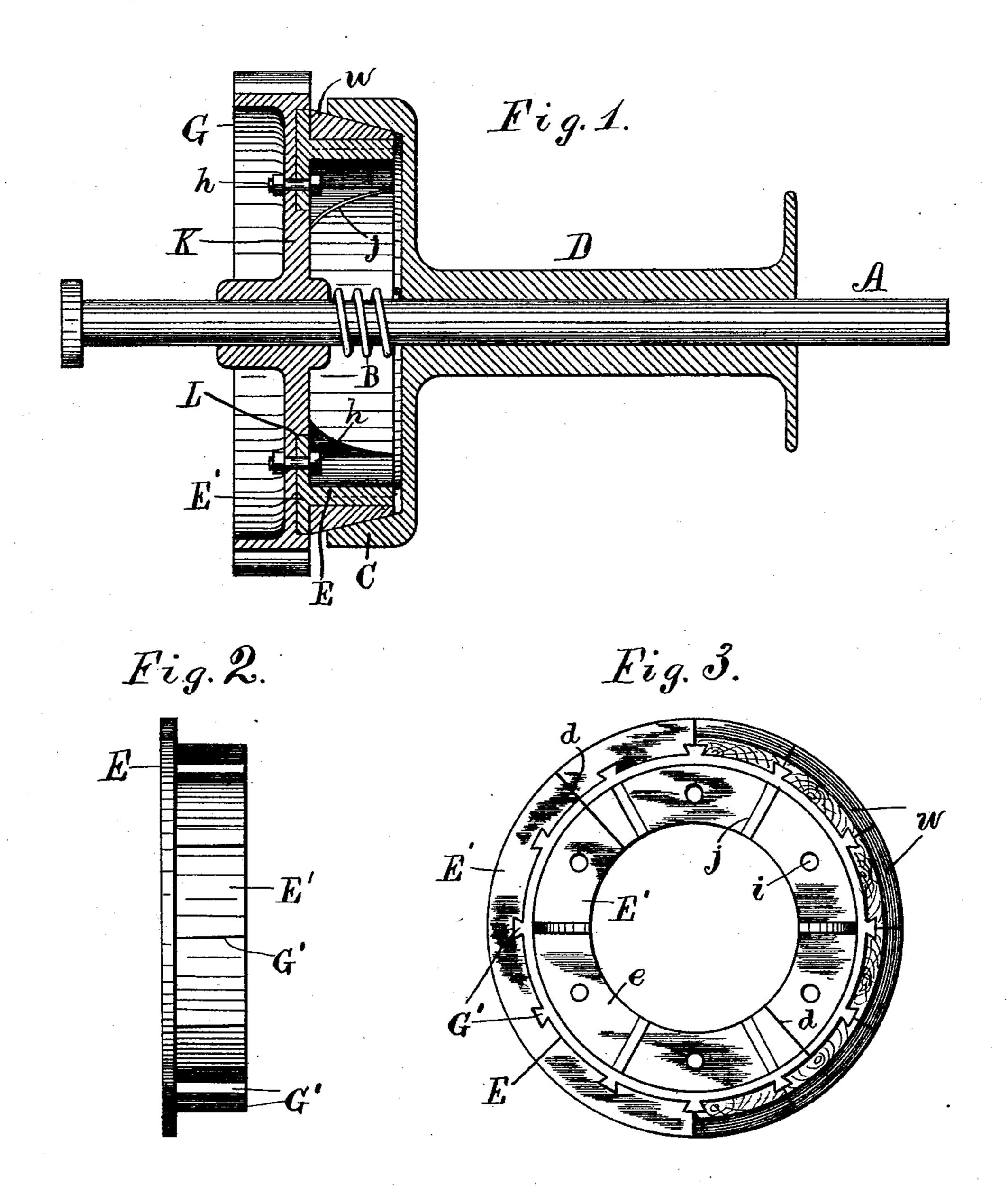
(No Model.)

A. J. DAVIS. FRICTION WHEEL.

No. 482,788.

Patented Sept. 20, 1892.



Attest: L. Lee Gdw. C. Kinsey A. J. Davis, per Crane Miller, attip.

INITED STATES PATENT OFFICE.

ALBERT J. DAVIS, OF PERTH AMBOY, NEW JERSEY.

FRICTION-WHEEL.

SPECIFICATION forming part of Letters Patent No. 482,788, dated September 20, 1892.

Application filed March 10 1892. Serial No. 424,400. (No model.)

To all whom it may concern:

Be it known that I, Albert J. Davis, a citizen of the United States, residing at Perth Amboy, Middlesex county, New Jersey, have 5 invented certain new and useful Improvements in Friction-Wheels, fully described and represented in the following specification and the accompanying drawings, forming a

part of the same.

The object of this invention is to facilitate the renewal of the wooden blocks which are commonly used in contact with a metallic cone to produce friction in a friction-wheel, and the invention is shown herein applied to the 15 drum of a hoisting-machine. In such hoisting-machines it is common to arrange the drum and driving gear-wheel upon the same shaft and provide each with a portion of the friction-wheel, the gear being rotated continu-20 ously and a spring being used to press the drum and gear-wheel normally apart, and the drum being pressed against the gear-wheel by suitable means when the drum is to be rotated.

In the drawings, Figure 1 is a longitudinal 25 section of the drum and friction devices with the parts shown in section where hatched. Fig. 2 is an edge view of the detachable ring for the wooden blocks, and Fig. 3 is a face view of the same with the blocks inserted in 30 one-half of the periphery and cross-lines d d to

indicate the division of the ring.

A is the drum-shaft, and B the spring inserted between the drum D and the hub of the gear-wheel G. The gear-wheel is formed 35 with a disk K, upon which is detachably mounted a ring E, to the exterior of which the wooden blocks w are applied. The outsides of the blocks are turned in conical form, and a hollow metallic cone C is formed upon the 40 end of the drum to fit the same. In Fig. 1 the drum is shown pressed with the cone in contact with the blocks. The ring E is of cylindrical shape and provided with a series of dovetails G', between which the blocks w, 45 grooved each upon its two inner corners to fit such dovetails, are driven tightly, as shown at the right-hand side of Fig. 3, the blocks being omitted from the remainder of the ring to I

show the construction of the plate E', by which the ring is attached to the disk K. This plate 50 is turned to fit a recess L in the face of the disk, and is thus accurately centered with the shaft A. Bracket-ribs j are shown upon the inner side of the ring and plate to stiffen the ring, and the plate is formed with bolt-holes 55 i between the ribs. The plate is secured to the disk by bolts h, fitted through the holes, so that it may be readily removed and a similar plate and ring substituted therefor.

The plate and ring are divided diametri- 60 cally, as shown at d in Fig. 3, to adapt the plate for removal from its position between the gear-wheel G and the drum D without removing either from the shaft A by slipping the drum or gear-wheel endwise and remov- 65 ing the halves of the ring separately after first removing the bolts h, which can be done

from the exterior of the gear-wheel.

I am aware of the state of the art disclosed by United States Patents No. 260,791, of July 70 11, 1882; No. 304, 300, of September 2, 1884; No. 408,011, of July 30, 1889, and No. 461,929, of October 27, 1891, and I hereby disclaim the same, limiting myself to the construction herein specifically shown, described, and claimed.

What I claim as my invention, and desire

to secure by Letters Patent, is—

The combination, with the hoisting-drum D, provided with the hollow cone C, of the gear-wheel G, provided with disk K, having 80 the recess L therein, and the ring E, having the plate E', divided into two parts and fitted to such recess and provided externally with the metallic dovetails G' and with the wooden blocks w, grooved each upon its two inner cor- 85 ners to fit such dovetails and tapered externally to fit the cone C, as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in the presence of two subscribing 90 witnesses.

ALBERT J. DAVIS.

Witnesses:

EDMUND D. HALSEY, J. WRIGHT BROWN.