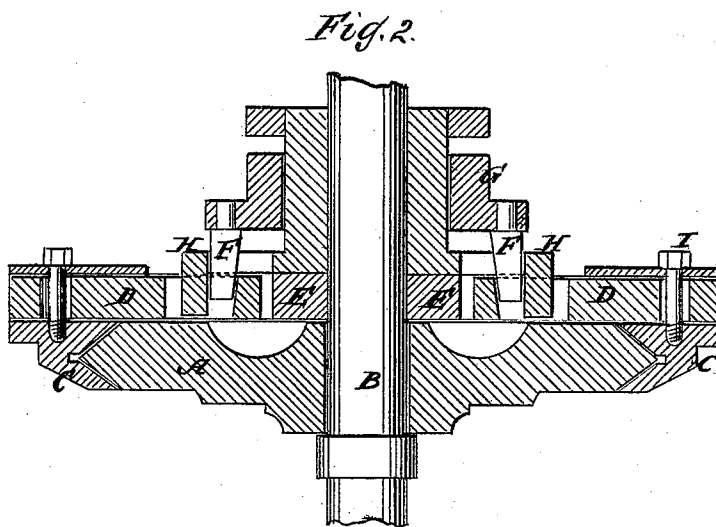
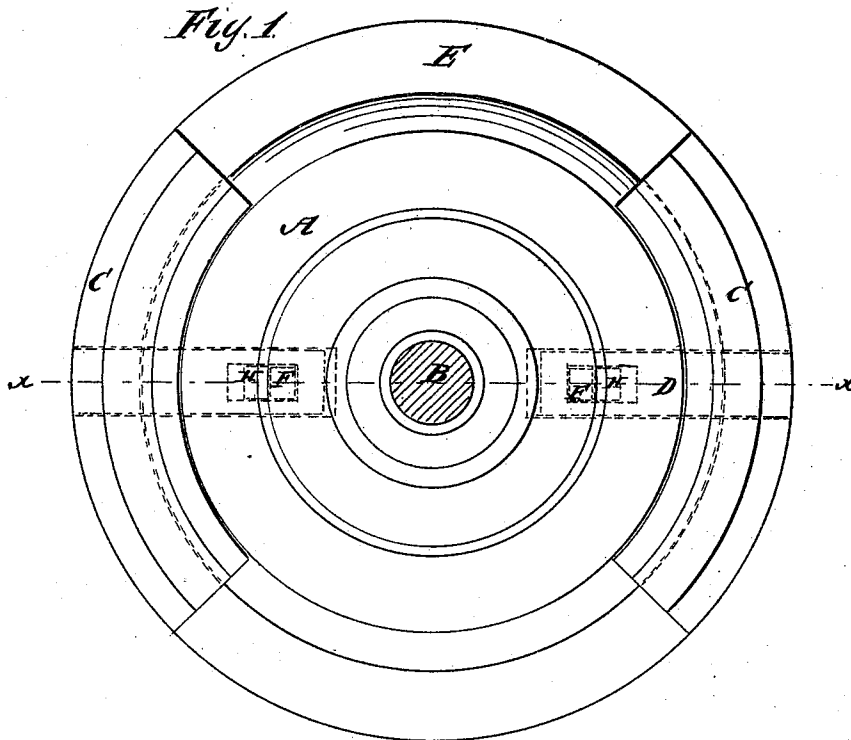


E. F. WILLIAMS.

FRICITION-CLUTCH.

No. 175,401.

Patented March 28, 1876.



WITNESSES:

E. Woff
John Goethals

INVENTOR:

E. F. Williams

BY

Wm. H. Williams
ATTORNEYS.

UNITED STATES PATENT OFFICE.

EDWIN F. WILLIAMS, OF BALD MOUNTAIN, COLORADO TERRITORY.

IMPROVEMENT IN FRICTION-CLUTCHES.

Specification forming part of Letters Patent No. **175,401**, dated March 28, 1876; application filed March 13, 1876.

To all whom it may concern :

Be it known that I, EDWIN F. WILLIAMS, of Bald Mountain, Gilpin county, Colorado Ter., have invented a new and Improved Friction Clutch, of which the following is a specification :

The invention consists of brakes which are drawn against the face of a disk-wheel by wedges moved by the sliding head on the shaft moved by the levers, the disk and the wedges being of V-shape, or any other approved form best calculated to cause friction.

Figure 1 is a side elevation of my improved clutch. Fig. 2 is a section taken on line *x x*.

Similar letters of reference indicate corresponding parts.

A is the disk, which is keyed on the shaft B, for stopping it. C represents the brakes for pressing against the face of the disk to stop it. They are connected to the slides D,

working in radial grooves in the disk E, and being forced in by the wedges F on the sliding hub G, and working in slots in the slides and against the supports H of the disk E.

The brakes are adjustably connected to the slides by bolts I, so as to be shifted along to take up the wear.

The construction is simple and cheap, and the arrangement is calculated to be very efficient.

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

The combination of disk A, brakes C, slides D, disk E, wedges F, and the sliding head G, substantially as specified.

EDWIN F. WILLIAMS.

Witnesses:

DEFOREST H. ANDREWS,
SAMUEL McCLURE.