

V. Knecht,

Pulley Sheave.

No. 103474.

Patented May 24, 1870.

FIG. 1.

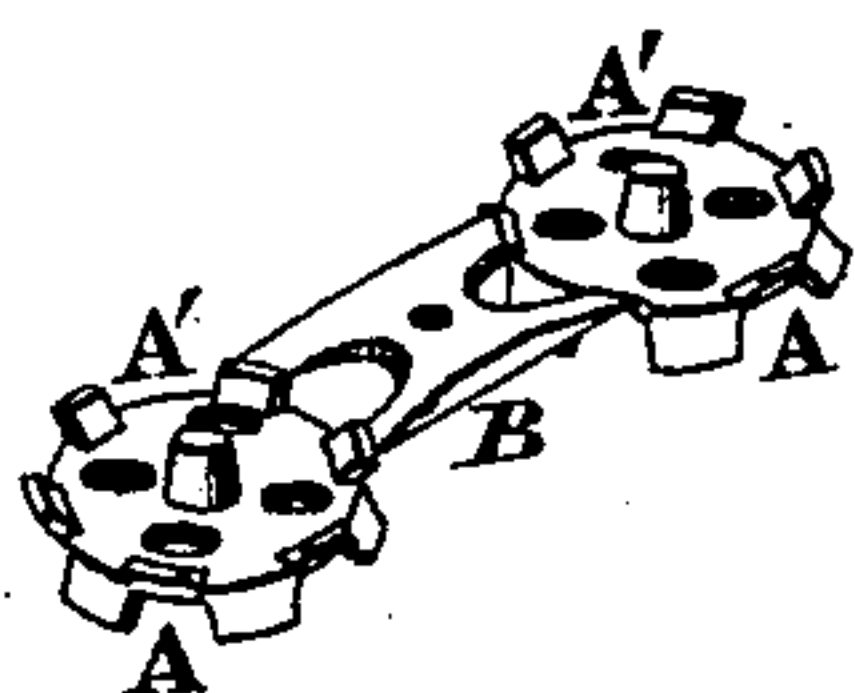


FIG. 2.

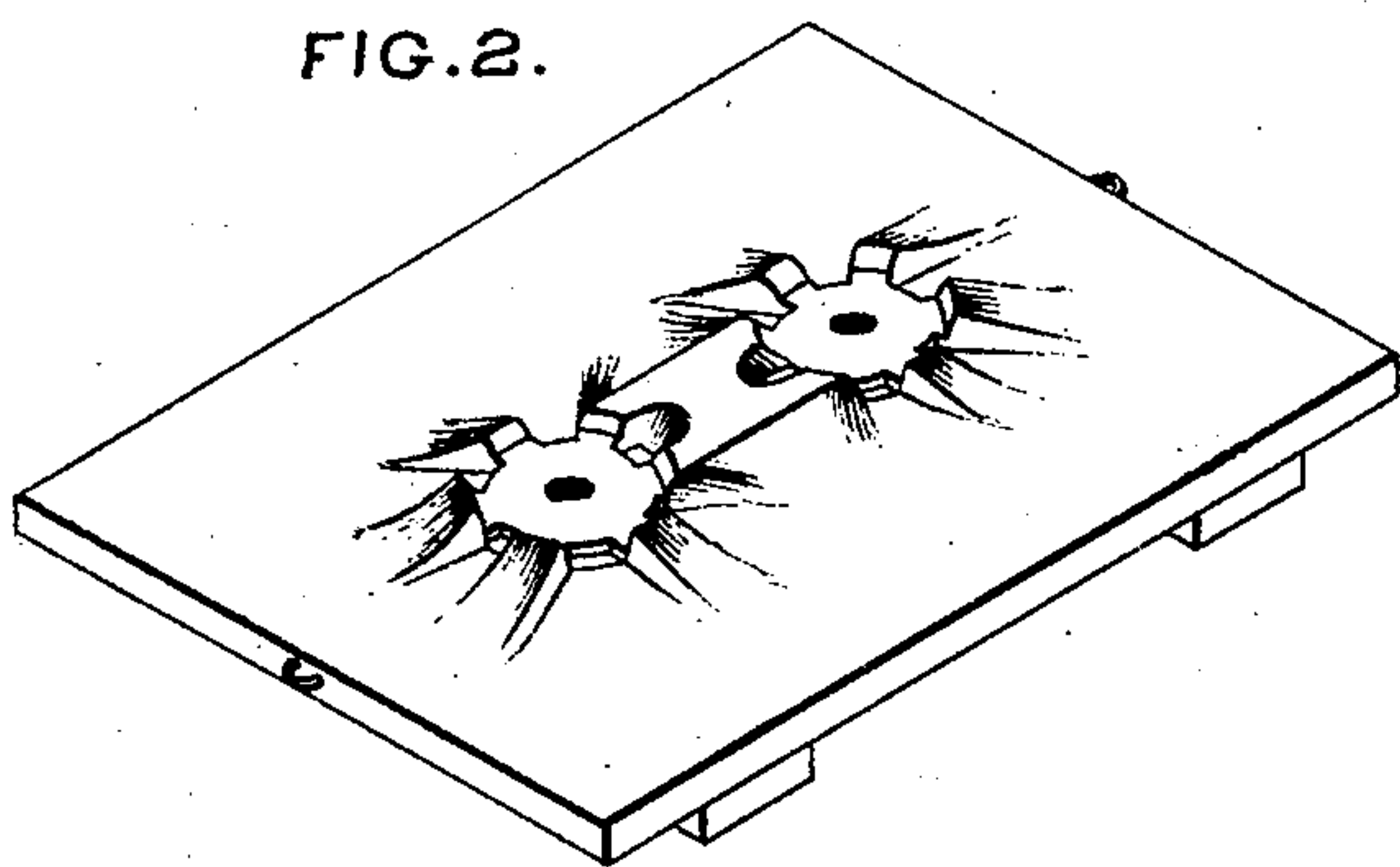


FIG. 3.

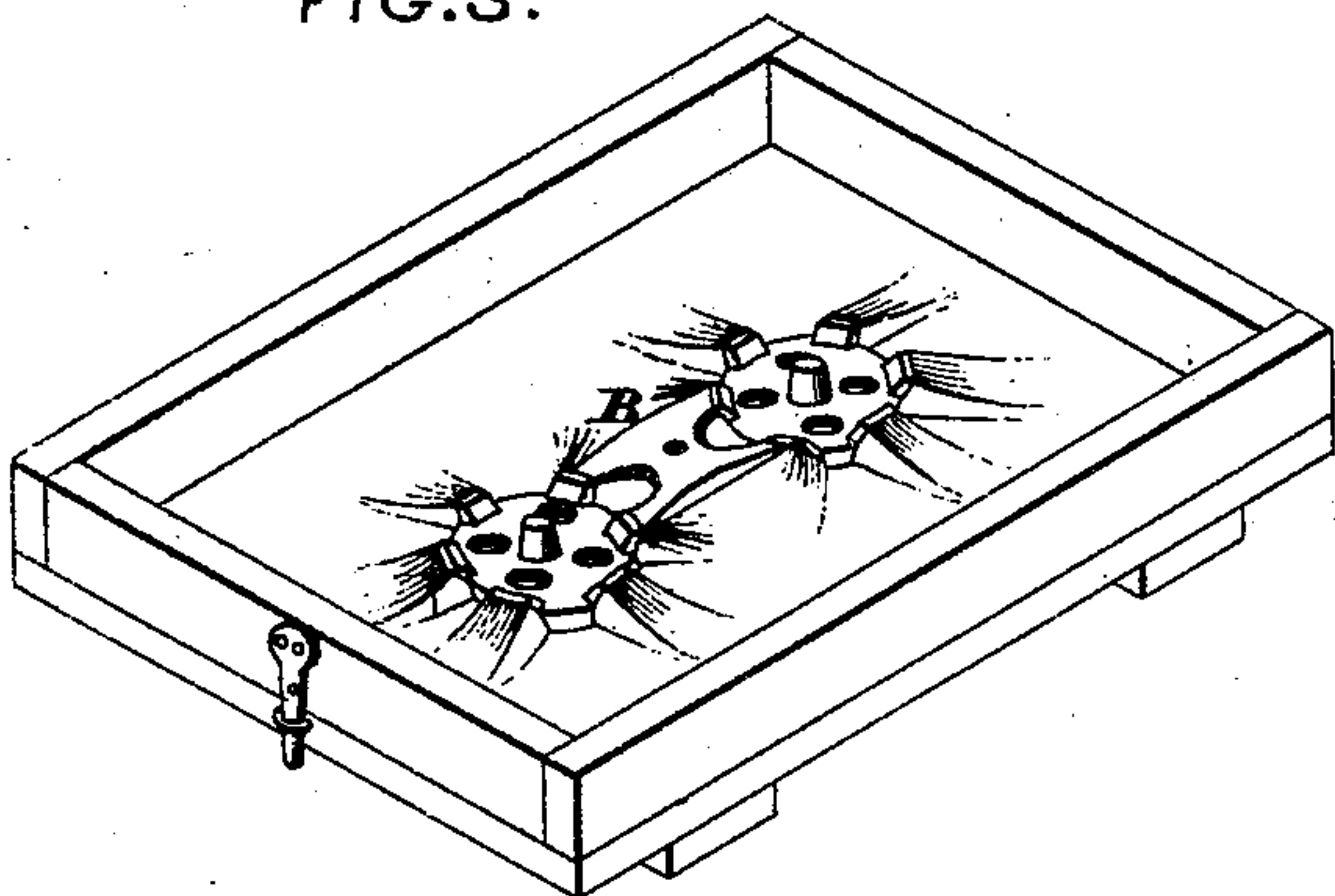


FIG. 4.

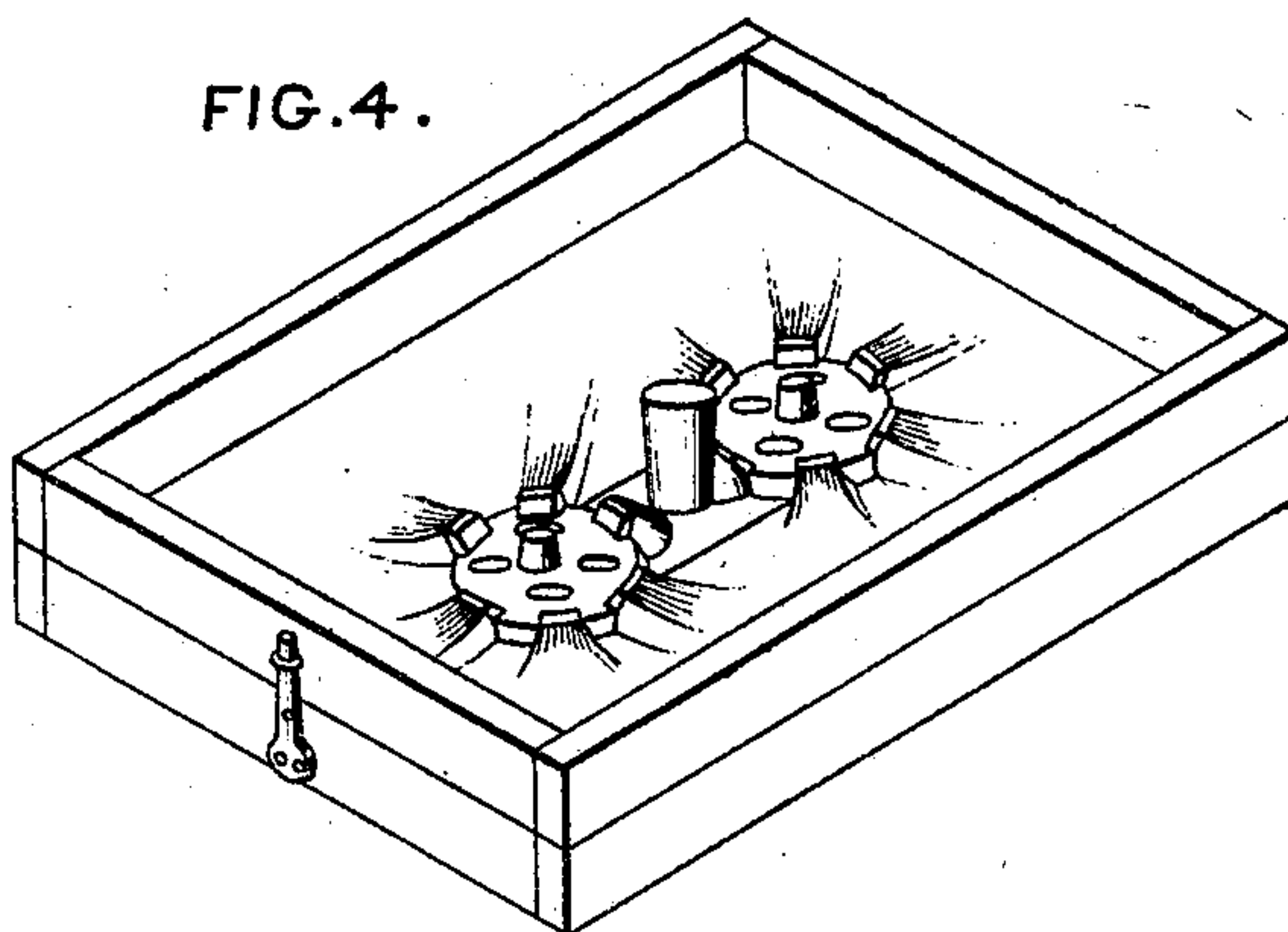


FIG. 5.

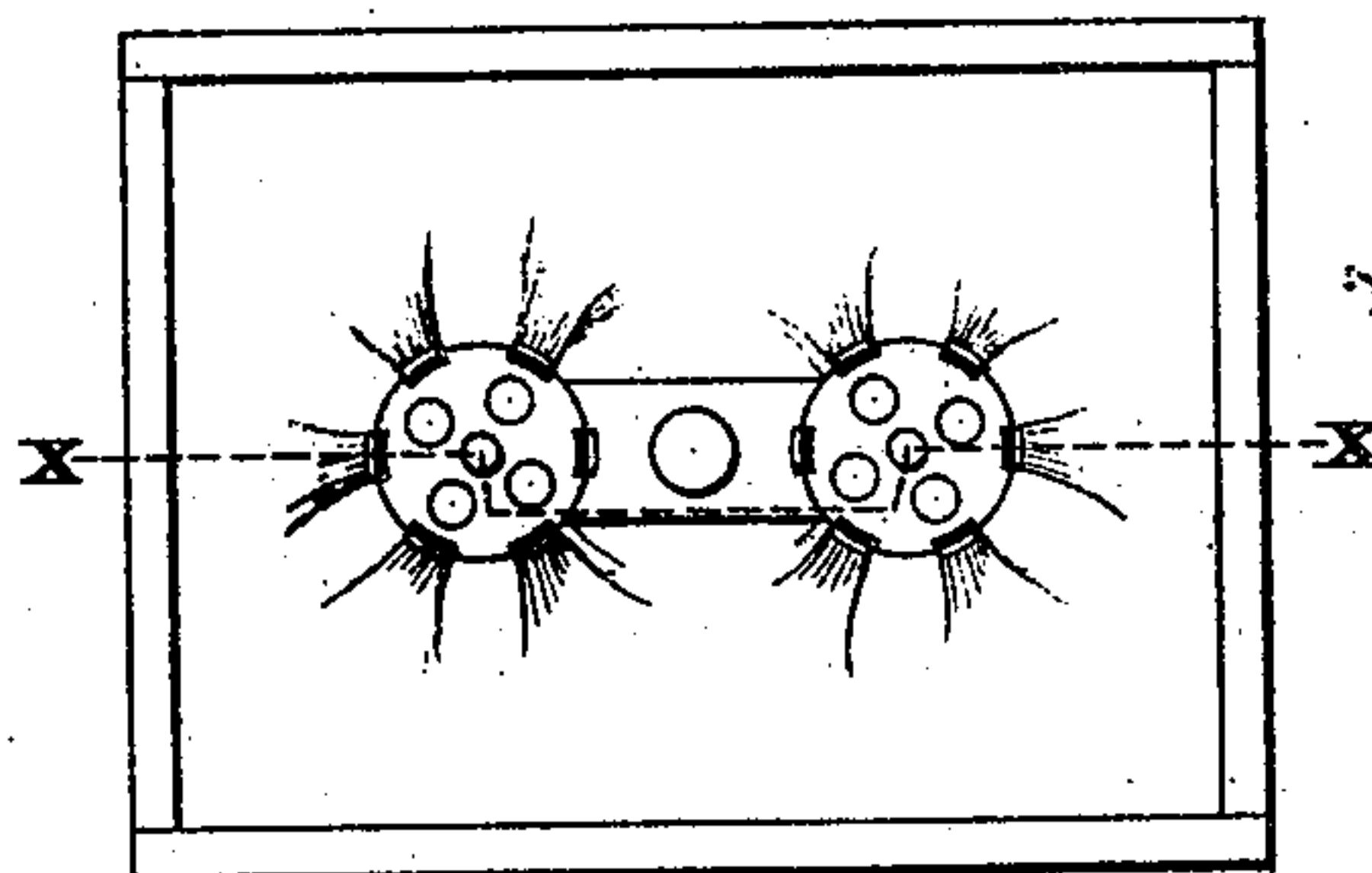
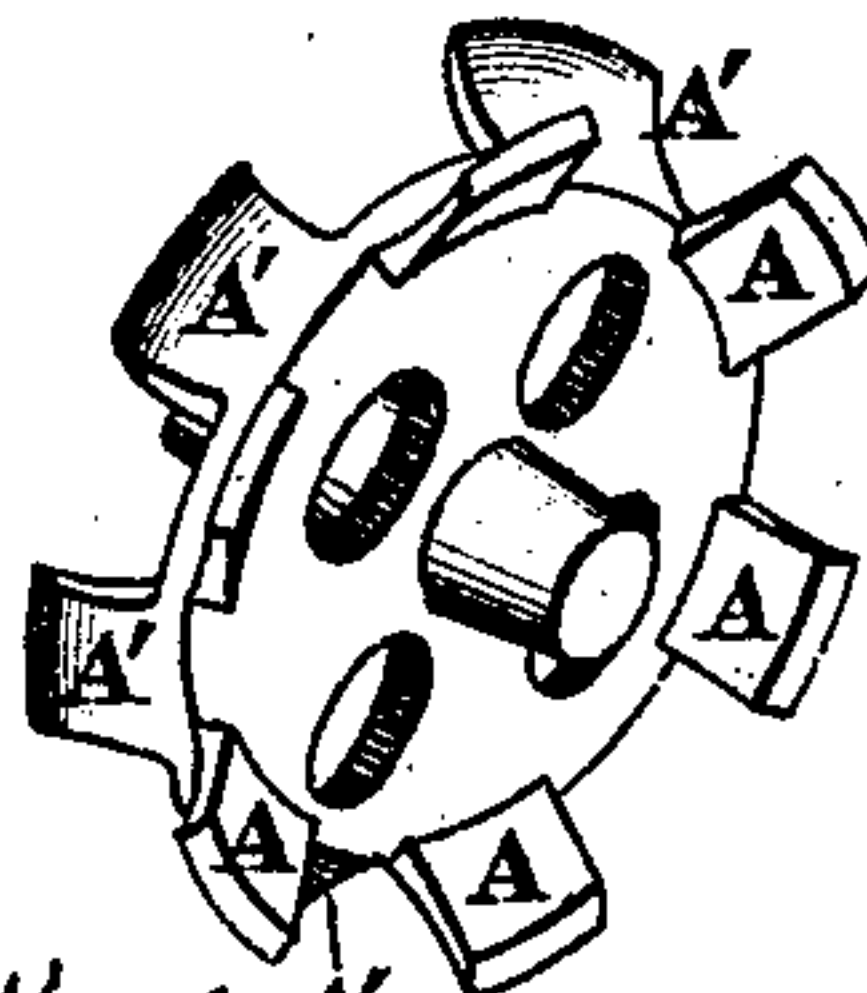


FIG. 6.



FIG. 7.



V. Knecht
By Knight Bros.
attys

ATTEST.

Gas. H. Layman.

William Bauer

UNITED STATES PATENT OFFICE.

VICTOR KNECHT, OF CINCINNATI, OHIO.

IMPROVED PULLEY-SHEAVE.

Specification forming part of Letters Patent No. **103,474**, dated May 24, 1870.

I, VICTOR KNECHT, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Manufacture of Cast Pulley-Sheaves, of which the following is a specification:

Nature and Objects of the Invention.

My improvement consists in substituting for the continuous ridges for holding the cord on the periphery of a customary cast pulley-sheave an arrangement of alternating lugs or cheeks, which enables such sheaves to be more easily and cheaply molded, and with less expenditure of metal.

General Description with reference to the Drawing.

Figure 1 represents, by perspective view, the pattern for a pair of my improved sheaves. Fig. 2 is a perspective view of the follow-board used therewith. Fig. 3 is a perspective view of the follow-board supporting the drag and pattern. Fig. 4 shows the drag after having been rammed, with the pattern and cope in position, the follow-board having been removed. Fig. 5 is a top view of the same. Fig. 6 is a vertical section at the line *x x*. Fig. 7 is a perspective view of the finished sheave.

Instead of the continuous flanges or ridges which form the customary scored periphery of

a pulley-sheave, I confine the cord upon the periphery of my sheave by means of two series of lugs or cheeks, *A A'*, which project alternately on opposite sides of the sheave.

This form of sheave may be molded without the necessity of separable patterns or of hard cores or chills and in one-half the time, and with a less skillful workman and a saving of metal over the customary form, so that the manufacture is cheapened both in labor and material.

The improvement is applicable to any description of cast sheave, wheel, or axle-pulley, for use with cords or chains.

By the use of suitable sprues, *B*, a number of such sheaves may be molded at one time.

Claim.

I claim—

As a new article of manufacture, a cast pulley sheave or wheel having the alternating lugs or cheeks *A A'* on its opposite sides, substantially as set forth.

In testimony of which invention I hereunto set my hand.

VICTOR KNECHT.

Witnesses:

GEO. H. KNIGHT,
JAMES H. LAYMAN.