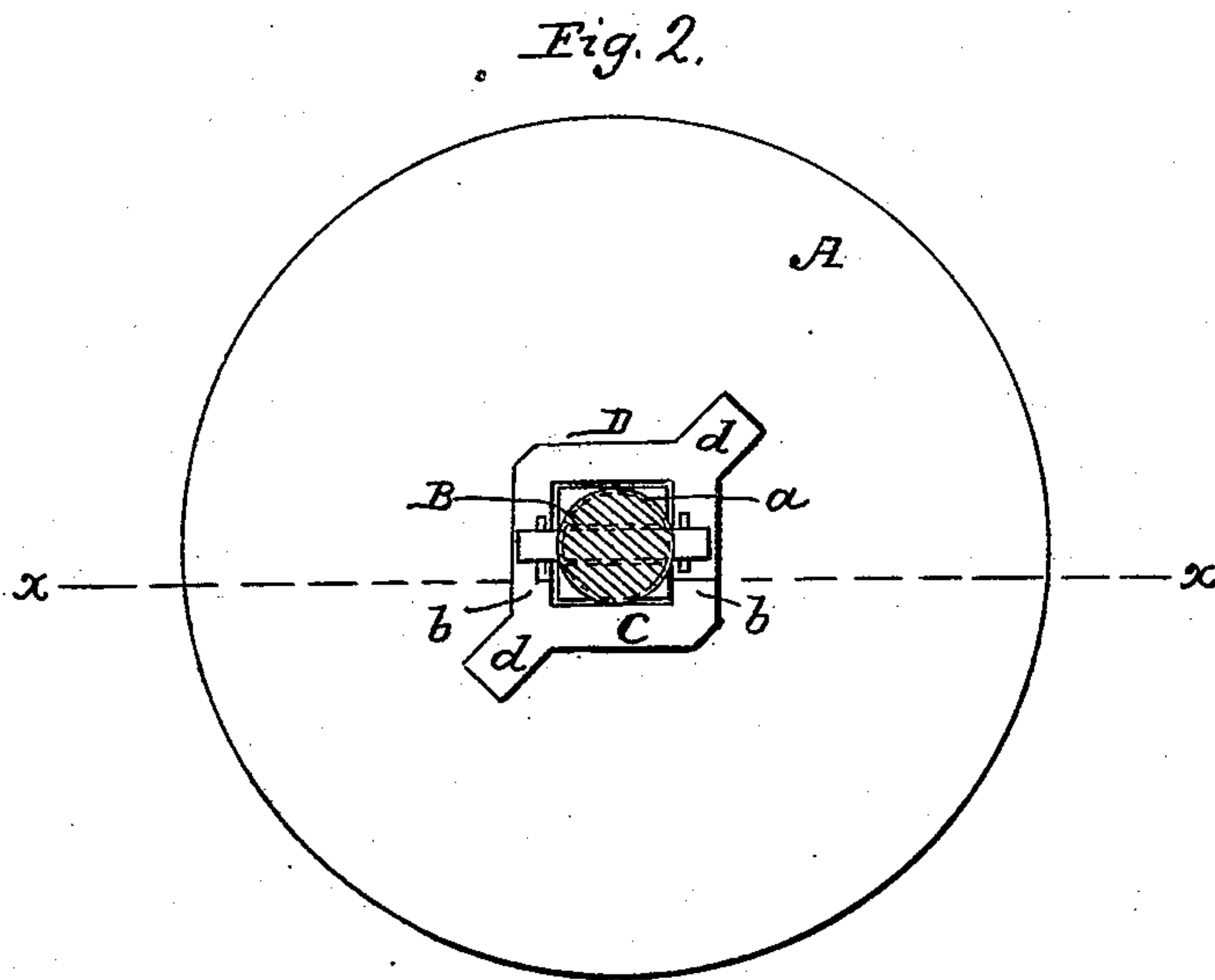
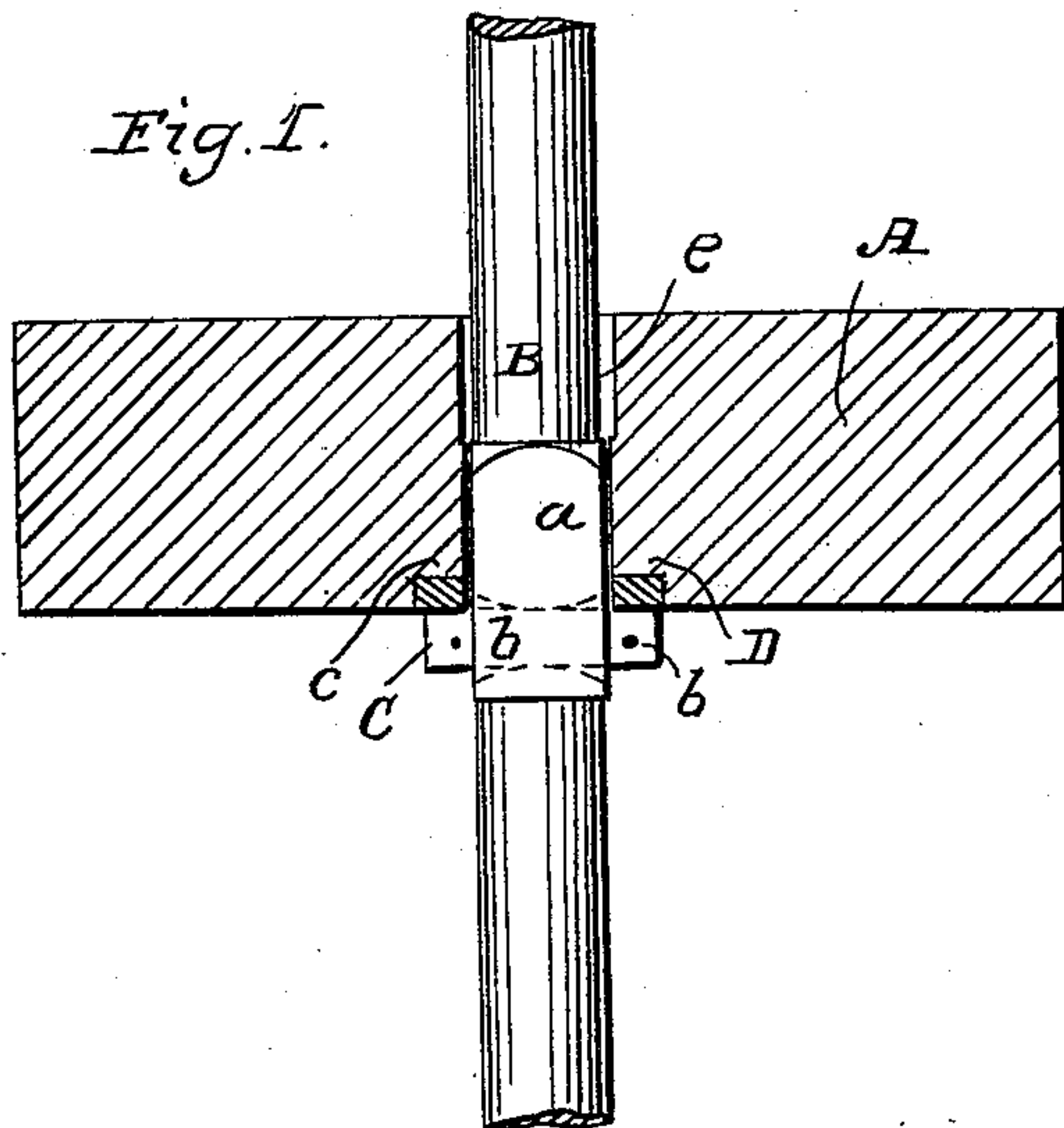


G. P. DANCE.
Hanging Millstones.

No. 28,534.

Patented May 29, 1860.



Witnesses:
Charles Hughes
J. W. Coombs

Inventor:
G. P. Dance
per Murray &
Atty.

UNITED STATES PATENT OFFICE.

G. P. DANCE, OF COLUMBIA, TEXAS, ASSIGNOR TO HIMSELF AND J. H. AND D. E. DANCE,
OF SAME PLACE.

HANGING MILLSTONES.

Specification of Letters Patent No. 28,534, dated May 29, 1860.

To all whom it may concern:

Be it known that I, G. P. DANCE, of Columbia, in the county of Brazoria and State of Texas, have invented a new and useful
5 Improvement in Hanging Millstones, and I do hereby declare that the following is a full, clear and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in
10 which—

Figure 1 is a vertical section of a lower rotating millstone or runner, arranged according to my invention. Fig. 2 is an inverted plan of the same.

15 Similar letters of reference indicate corresponding parts in the two figures.

The object of this invention is to hang by a very simple means the runner of a pair of millstones in such a manner that it may, as
20 it rotates adjust itself to the position of the stationary stone, and the parallelism of the faces of the two stones be preserved whether the stationary one be perfectly horizontal or not.

25 The invention consists in the employment or use of a driver provided with a taper opening, in connection with a rocking key fitted in the spindle, the driver being fitted in the runner and resting on the key, substantially as hereinafter described.

To enable those skilled in the art to fully understand and construct my invention I will proceed to describe it.

35 A represents the runner, and the lower stone of a pair of millstones.

B is the spindle provided with a square section *a*, having a metal key C, passing transversely through it; said key being fitted in a mortise which has convex upper and
40 lower surfaces as indicated by the dotted lines in Fig. 1. The key C, projects a suitable distance from each side of the spindle, and it has a pin *b*, passing through it near each end to retain it in proper place.

45 D is a metal driver which is secured centrally in the under side of the runner.

This driver may be formed of a hollow square *c*, provided with a projecting bar *d*, at each end, as shown clearly in Fig. 2, and the inner sides of the square *c*, are beveled or
50 inclined so that the lower part of the interior of the square will be smaller than the upper part. The runner A, also has a hole *e*, made through its center, to allow the spindle to pass through. 55

The square part *a*, of the spindle is fitted in the square *c*, of the driver, the latter resting on the ends of the key C. In consequence of the mortise, in which the key is fitted, having convex upper and lower surfaces the
60 key is allowed to rock therein, and as the interior of the square *c*, of the driver is larger at the top than at its bottom; the runner is also allowed to rock on the key, the lower edge of the square *c*, of the driver
65 fitting snugly or quite near to the square section *a*, of the spindle. The hole *e*, in the runner is sufficiently large to admit of the rocking or play of the stone. By this arrangement the runner A, is connected to the
70 spindle B, by what may be termed a universal-joint attachment, and the face of the runner, as the latter rotates, will consequently be allowed to conform to the surface of the stationary stone, if out of a horizontal
75 plane or position. The invention it will be seen is extremely simple and efficient, involving but little expense in its construction and application.

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

The driver D, provided with a taper square opening *c*, at its center fitted in the runner A, and resting on a rocking key C,
85 in the spindle the latter passing through the taper opening of the driver, substantially as and for the purpose set forth.

G. P. DANCE.

Witnesses:

A. R. PARK,
W. C. BOYKIN.