JOHN W. LIGON.

Grindstone-Axle.

No. 127,492. Patented June 4, 1872.

Fig. 1.

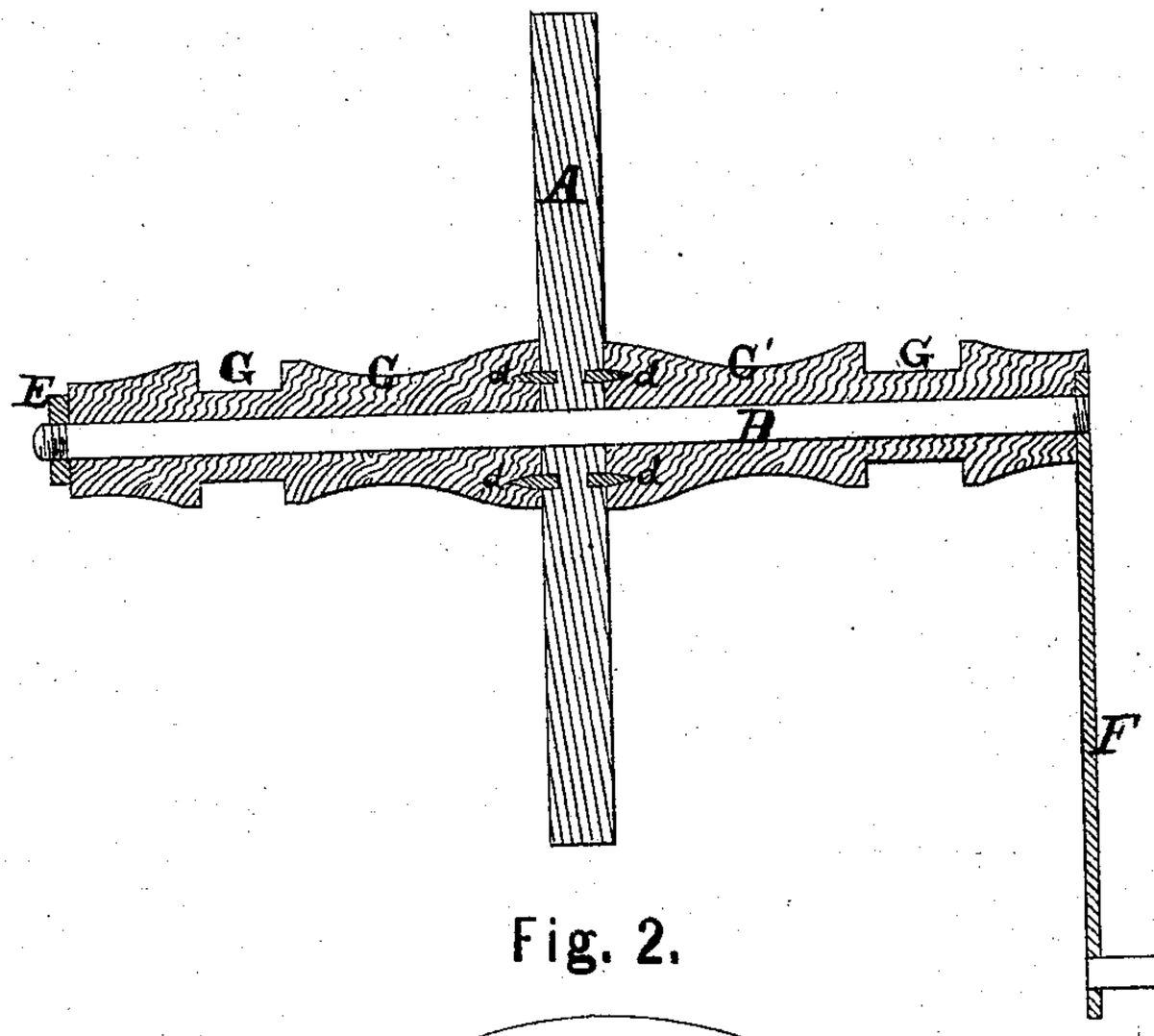


Fig. 2.

Fig. 3.

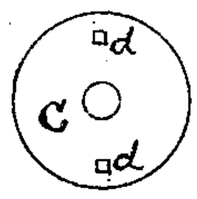
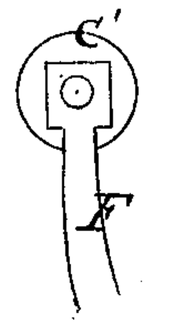


Fig. 4.



WITNESSES.

G. E. Upham.

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UNITED STATES PATENT OFFICE.

JOHN W. LIGON, OF MARION, KENTUCKY.

IMPROVEMENT IN GRINDSTONE-AXLES.

Specification forming part of Letters Patent No. 127,492, dated June 4, 1872.

To all whom it may concern:

Be it known that I, JOHN W. LIGON, of Marion, in the county of Crittenden and State of Kentucky, have invented a new and valuable Improvement in Grindstone-Axles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawing making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawing is a representation of a longitudinal central vertical section of my invention. Fig. 2 is a face view of my grindstone, and Figs. 3 and 4 are details.

This invention has relation to grindstones; and the novelty consists in the construction and arrangement of the axle and handle, as hereinafter described.

Referring to the accompanying drawing, A represents an ordinary grindstone, through the eye of which passes a rod or shaft, B, holding the two sections C C′ of a wooden axle. The inner ends of the respective sections C C′ touch the stone on opposite sides, and are each provided with two studs or pins, *d*, adapted to enter corresponding recesses cut in the sides of the stone, as represented at *d′*. By means of these studs the rigidity of the stone with respect to the axle is permanently preserved. At one end of the shaft B a nut, E, is fastened, while to the other end is secured the handle or crank F. The end of said crank, which is screwed on the rod B, is constructed with shoulders and fits a corresponding recess formed in the end of the section C′, the arm of the crank passing through a suitable slot or notch cut from the recess to the surface of the section. In arranging the parts of my invention the handle is fitted to its place before the application of the nut E. The above-described arrangement of the crank-arm tends to prevent it from turning. G represents grooves cut in the axle, to rest on the axle bearings or boxes.

What I claim as my invention, and desire to secure by Letters Patent, is—

The grindstone A, having the recesses *d′*, with the wooden-axle sections C C′, having studs *d*, in combination with the crank-arm F, having a square end fitting a recess in the end of section C′, and nut E, substantially as and for the purpose specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN W. LIGON.

Witnesses:

T. M. BUTLER,

R. N. WALKER.