

S. L. BIGNALL.

GRINDSTONE JOURNALS AND HANGERS.

No. 175,647.

Patented April 4, 1876.

FIG. 1.

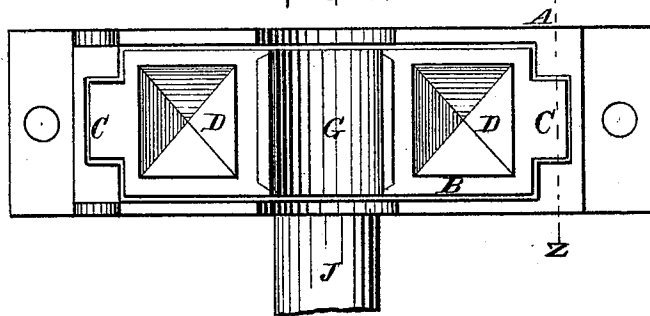


FIG. 2.

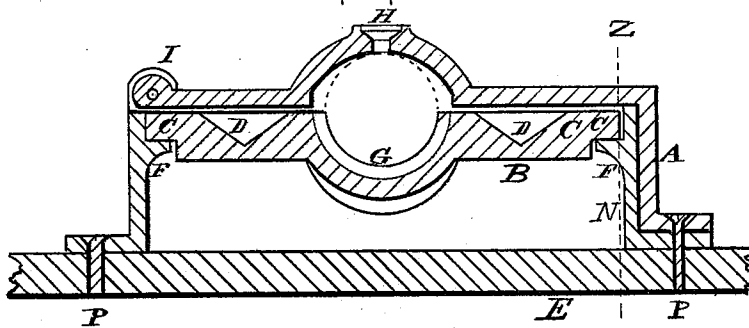
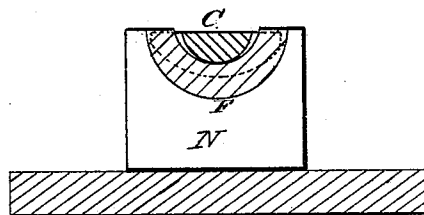


FIG. 3.



ATTEST

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INVENTOR

Solomon L. Bignall
By G. L. Chapin. Atty.

UNITED STATES PATENT OFFICE.

SOLOMON L. BIGNALL, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN GRINDSTONE JOURNALS AND HANGERS.

Specification forming part of Letters Patent No. **175,647**, dated April 4, 1876; application filed February 14, 1876.

To all whom it may concern:

Be it known that I, SOLOMON L. BIGNALL, of the city of Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Grindstone-Hangers, of which the following is a specification:

The nature of the present invention consists in shaft-hangers which are provided with adjustable boxes, whereby the shaft of the stone may have a proper level bearing, notwithstanding the frame on which the hanger is placed be not level. The end parts of the hanger-box are provided with caps to hold cotton waste, or other like substance, for holding oil, that the shaft may be supplied with lubricating substance for a long period of time.

The object of the invention is to provide a grindstone hanger which may be attached to a grindstone-frame by means of the ordinary farm-hand, and operate perfectly where the convenience of skilled labor or tools are not in reach or not desired.

In the drawings, Figure 1 is a plan or top view of my improvement in grindstone-hangers, removed from its supporting-frame, but showing the end of the grindstone-shaft; Fig. 2, a vertical longitudinal section of the hanger on line *x*, Fig. 1; Fig. 3, a transverse sectional elevation of Figs. 1, 2, on line *z*.

N represents the cast-metal frame, which is supported by the frame-piece E, being on one side of the grindstone, a similar frame-piece

being on the opposite side of the stone, in the usual manner. The iron frame N is provided with two semicircular bearings, F, Figs. 2 and 3, to support the ends C C of a rock-bar or adjustable box, B, which is provided with a bearing, G, for a grindstone-shaft, J. The ends C being free to turn in the bearings F, the box B adjusts itself to the line of shaft J, if the top of frame E be not level. In the end portions of the box B, at D D, are formed cups to receive cotton waste or other substance for taking up oil and imparting it to the shaft J as required. A top view of the cups is shown at Fig. 1, the cap holding the shaft J in the box G being removed. At Fig. 2 the cap A, for clamping the parts together for use, is hinged to the frame N, and its opposite end is held in position by one of the screws P or bolts which secure the hanger to the frame F. The oil-port is to be closed by a plug, H. In practice, two boxes are to be used.

I claim and desire to secure by Letters Patent—

The combination of the adjustable box B, provided with oil-cups D, in combination with the frame N and cap A, as and for the purpose specified.

SOLOMON L. BIGNALL.

Witnesses:

G. L. CHAPIN,
O. H. ADIX.