(No Model.)

S. LEWIS.

GRINDSTONE FRAME.

No. 375,170. Patented Dec. 20, 1887.

Fig. 1

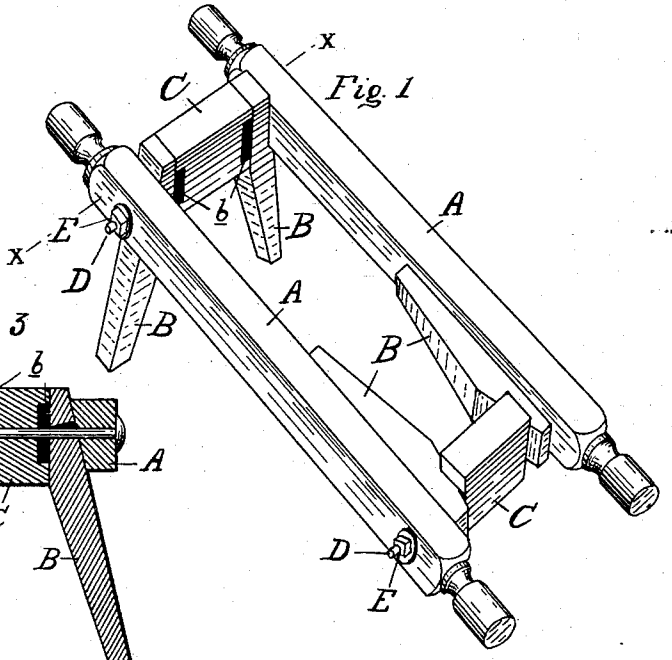


Fig. 3

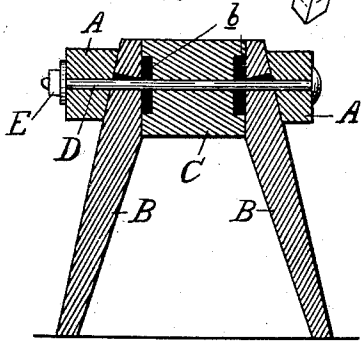


Fig. 2

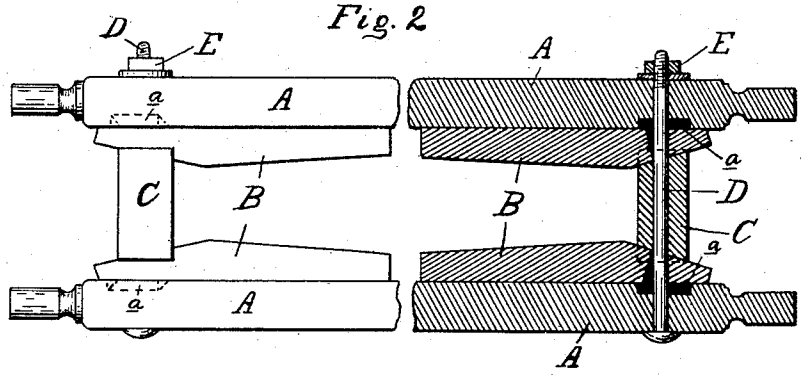
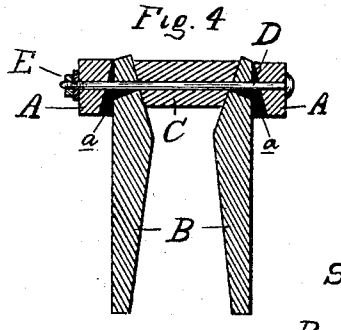


Fig. 4



Witnesses:
P. M. Hulbert
Jas. Whittemore

Inventor:
Spencer Lewis
By Thos. A. Spraguer & Son
Att'y.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

SPENCER LEWIS, OF BOUNDARY, INDIANA, ASSIGNOR TO THE LAKE HURON STONE COMPANY, OF DETROIT, MICHIGAN.

GRINDSTONE-FRAME.

SPECIFICATION forming part of Letters Patent No. 375,170, dated December 20, 1887.

Application filed August 15, 1887. Serial No. 246,959. (No model.)

To all whom it may concern:

Be it known that I, SPENCER LEWIS, a citizen of the United States, residing at Boundary, in the county of Jay and State of Indiana, have invented certain new and useful Improvements in Grindstone-Frames, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in grindstone-frames.

The object of the invention is to so construct a frame for grindstones that it may be brought readily into a so-called "knockdown" condition for greater convenience in shipping, to economize room, and to facilitate handling; and to this end my invention consists in the peculiar construction and arrangement of the parts whereby the legs may be disposed of compactly within the frame without taking it apart or detaching any portion thereof, and whereby the parts are secured together in such knockdown condition from becoming detached, all as more fully hereinafter described, and then specifically defined by the claims.

Figure 1 is a perspective view of my improved frame, with one pair of legs set up and one pair folded. Fig. 2 is a plan, partly in section, of the frame in folded or knockdown condition. Fig. 3 is a cross-section on the line *x x*, Fig. 1. Fig. 4 is a vertical cross-section through the legs, showing the parts in the first stage of folding.

In the accompanying drawings, which form a part of this specification, A represents the side bars or rails of my improved frame; B, the legs; C, spreader-blocks between the legs, and D bolts securing the parts together.

Near each end of the rails and in the inner faces thereof are cut the inclined recesses or gains *a*, into which the upper ends of the legs B are designed to engage. The heads of the legs are beveled upon their inner faces, to form a vertical joint, or nearly so, with the ends of the spreader-blocks, and into these ends of the spreader-block are cut gains *b*, into which the beveled ends of the legs are adapted to engage, as hereinafter described. The bolts D pass loosely through the legs, rails, and spreader-blocks, and have suitable nuts, E, to draw the parts firmly together, and also to permit of loosening them by unscrewing the nut. In practice, when the frame is in set-up condition, the legs engage into the gains *a* in the rails, thereby assuming the usual spread. The spreader-blocks C, however, are turned into such position as to prevent the legs from engaging into the gains *b* of the spreader-blocks, and if the nuts E are firmly tightened the whole frame is absolutely rigid.

To put the frame into a knockdown condition the nuts upon the bolts D are loosened, so as to permit of giving the spreader-blocks one-quarter turn, which brings them in such position that the legs B may be now disengaged from the gains *a* and engage in the gains *b* of the spreader-blocks, thereby taking up the spread of the legs, as shown in Fig. 4. By turning the legs and spreader-blocks together they may be easily folded within the rails, as shown in Fig. 2. By again turning up the nuts upon the bolts the parts are firmly held together in a compact form for shipment or storing.

What I claim as my invention is—

1. In a knockdown frame, the combination, with the side rails and legs, of spreader-blocks provided with gains adapted to compensate the spread of the legs, and securing-bolts, substantially as described.

2. In a knockdown frame, the combination of the side rails, A, provided with the inclined recesses *a*, legs B, provided with beveled inner faces, spreader-blocks C, provided with gains *b*, and retaining-bolts D and nuts E, the parts being arranged, constructed, and operating substantially in the manner and for the purposes specified.

In testimony whereof I affix my signature, in presence of two witnesses, this 2d day of August, 1887.

SPENCER LEWIS.

Witnesses:
JAS. WHITTEMORE,
P. M. HULBERT.