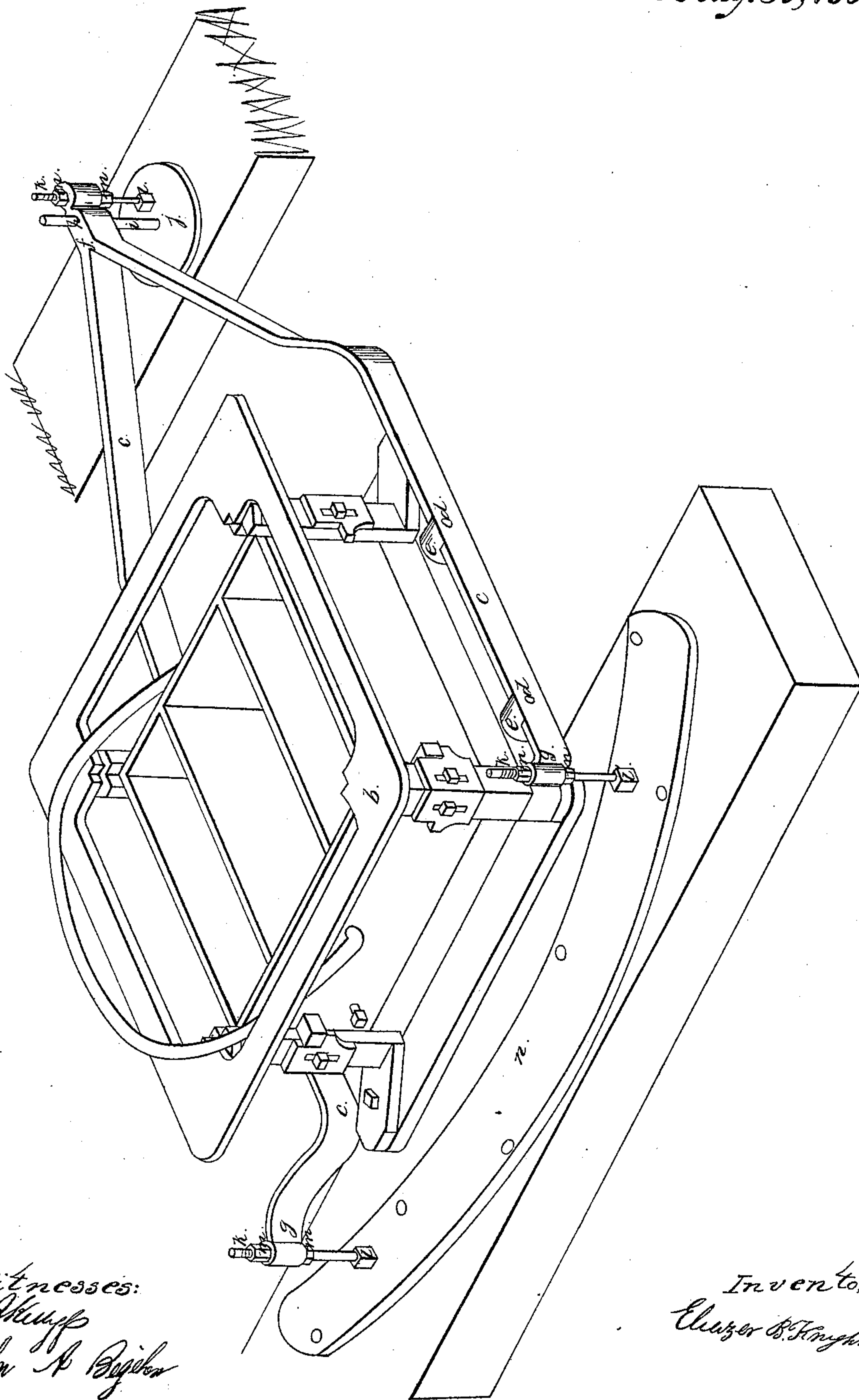


*E. B. Knight,  
Dressing Stone.*

*N<sup>o</sup> 25,268.*

*Patented Aug. 30, 1859.*



*Witnesses:  
Amos Bluff  
John A. Bayliss*

*Inventor:  
Elihu B. Knight*



# UNITED STATES PATENT OFFICE.

ELEAZER B. KNIGHT, OF MALDEN, NEW YORK, ASSIGNOR TO E. B. KNIGHT AND NATHAN KELLOGG, OF SAME PLACE.

## MACHINE FOR HOLDING STONES.

Specification of Letters Patent No. 25,268, dated August 30, 1859.

*To all whom it may concern:*

Be it known that I, ELEAZER B. KNIGHT, of Malden, in the county of Ulster and State of New York, have invented certain new and useful Improvements in Stone-Holding Machines; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters and marks thereon.

The stone-holding machine shown by the drawings of this application is that upon which a patent was granted to the present applicants, on the 14th day of September 1858, with the improvement of the present invention added thereto.

The machine proper consists of two parts, an interior box, to which sets of clamps for holding the stone are attached, and an exterior box or frame for holding the first named box, and which when in use is affixed to a frame over the rubbing-bed.

As the improvement of the present application relates to the manner of connecting the stone-holder with the rubbing-bed frame, the descriptive part of this specification will be limited to the improvement involved.

As set out by the patent heretofore alluded to, the exterior frame or box of the stone-holder was, by screws and nuts or equivalent means, secured to the frame bars or timbers of the rubbing-bed. In the passage of the rubbing-bed underneath the holder the same surface or track of the bed was continuously exposed to the stone operated upon, and the greater or larger part of the rubbing-bed surface was not used. The only way in which a change in the position of the holder could be effected was by entirely detaching it from the frame and securing it in another position, and this involved very considerable labor and loss of time; but unless this was done, as will readily be perceived, parts of the surface of the rubbing bed would be worn more than other parts, and thus the surface become irregular and the value and usefulness of the bed be greatly depreciated thereby.

To overcome the evils of the rigidly attached holder is the object of the present invention, and it consists, as is shown by the drawings, in suspending the holder upon a frame, having suitable guides and means for adjustment, so that it can easily and readily

be placed over any such track or surface of the rubbing-bed as may be desirable.

In the drawings forming part of this specification the interior box of the stone-holder is marked (*a*) and the exterior box or frame (*b*). To the exterior part, it will be noticed, bars (*c, c*) are attached by screws and nuts (*d, d*) to ears or lugs (*e, e*) on the lower part of the frame. At the one end (*f*) the bars are united while at the other end (*g*) they are separate and extend out from the stone-holder proper. Where the bars are united is a hole (*h*) through which passes a rod (*i*) which is the center or turning point of the suspension. Rod (*i*) has for its bearing a disk or base plate (*j*) which, by screws or otherwise, is secured to some one of the bars or frame timbers of the rubbing-bed. At the extreme point of union of the bars (*c, c*) a bolt or screw rod (*k*) passes through a hole. This bolt (*k*) has a bearing head (*l*), and adjusting nuts (*m, m*), and like bolts (*k, k*) with heads and adjusting nuts, also pass through holes in the opposite ends of the bars (*c, c*). A curved or other suitable formed bearing plate (*n*) is secured to some other one of the bars or timbers of the rubbing-bed frame upon which the bolt heads (*l, l*) rest. It will readily be perceived that, by the bolts (*k*) and their nuts the stone-holder or box can be adjusted vertically,—both ends being of the same level,—the one lower than the other, or one of the corners more depressed than the other; while the holder can be moved on its center rod or bearing (*i*) the one way or the other as may be required to place the stones over a different portion of the rubbing-bed. By these means the surface of the rubbing bed will be more uniformly worn, and where the bed is compound, *i. e.*, made up of tracks of different degrees of hardness, or of different materials, the stone being operated upon can easily be changed from the one track to another. These means, also, allow the surface or edges of the stones to have at different parts different faces, for by the vertical adjustment of the holder any one or more parts of the stone's edge presenting to the rubbing-bed can be more or less acted upon than some other part. This manner of suspending the stone-holder can be adopted for a reciprocating rubber-bed, for one ro-

tating upon a vertical axis or shaft, or for  
one rotating upon a horizontal axis; and,  
as is obvious, stones or other substances of  
any degree of hardness or softness can be  
5 readily and very completely operated upon.

Having thus set out the construction and  
operation of my invention what I claim as  
new and desire to secure by Letters Patent  
is,—

10 Providing the stone-holding machine with

the suspending arms (*c, c*), plates (*j*) and  
(*n*), rod (*i*), and adjusting bolts (*k, k*), or  
their equivalents, whereby said machine may  
be readily adjusted vertically and also hori-  
zontally in the arc of a circle, substantially 15  
as described and for the purpose specified.

ELEAZER B. KNIGHT.

Witnesses:

ASA B. KELLOGG,  
JOHN A. BIGELOW.