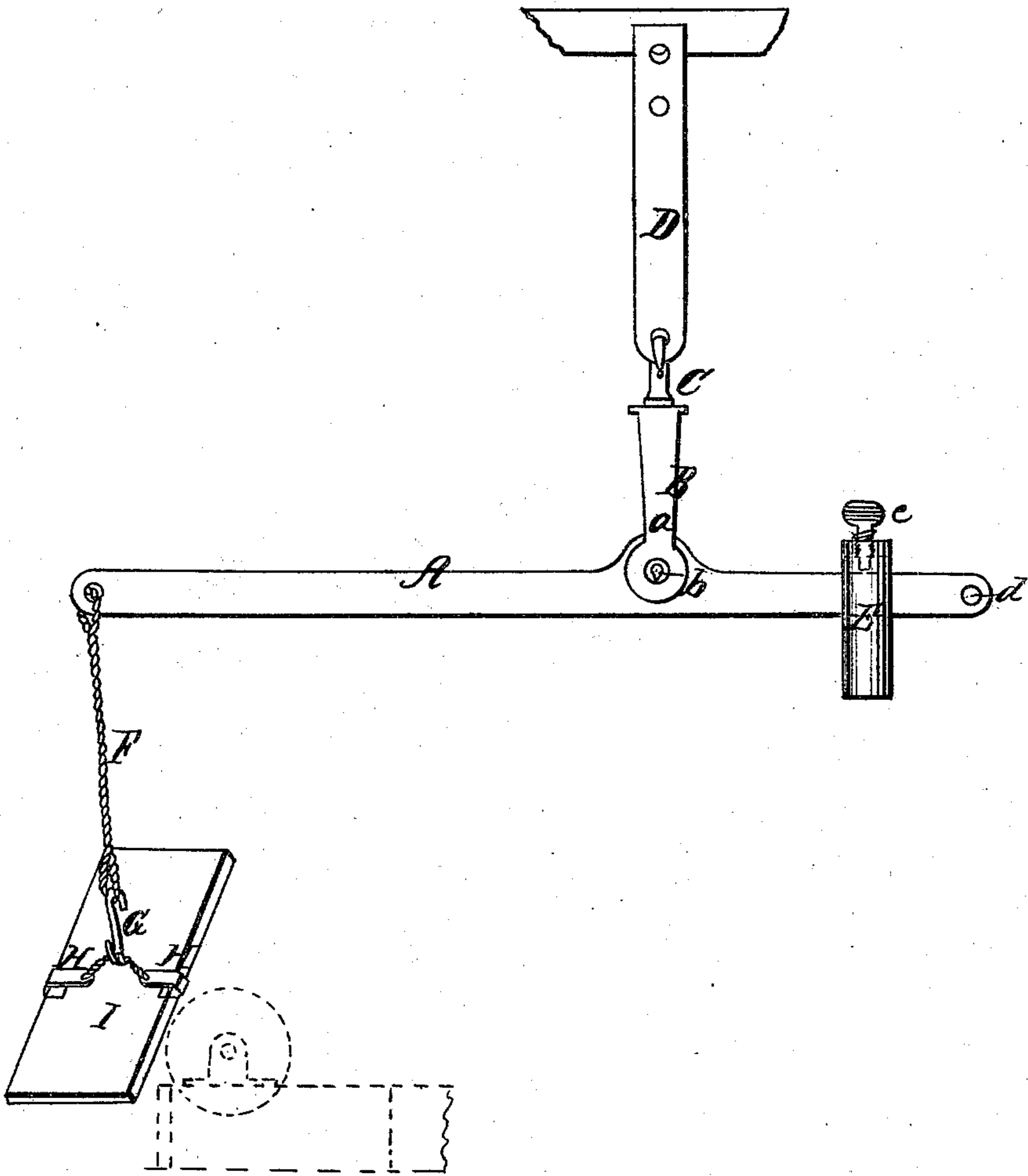


T. Jones,

Stone & Glass Polisher.

No. 88487.

Patented Mar. 30. 1869.



Witnesses.

Geo. R. Russell

Phil. J. Lamer.

Inventor

Thomas Jones

By G. A. Sheppard & Co.

Attys.

United States Patent Office.

THOMAS JONES, OF NEW YORK, N. Y.

Letters Patent No. 88,487, dated March 30, 1869.

IMPROVED DEVICE FOR HOLDING PLATES OF GLASS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, THOMAS JONES, of the city, county, and State of New York, have invented a new and useful Device for Holding Plates of Glass whilst cutting the same; and I do hereby declare the following to be a full, clear, and exact description thereof, sufficient to enable others skilled in the art to which my invention appertains, to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which my invention is represented by a side elevation.

The nature of my invention consists in suspending plates of glass from a balanced beam, whereby the operator is enabled to hold the glass on the stone, and manipulate the plate with ease, while ornamenting the same by process of grinding.

Heretofore, it has been almost if not wholly impossible to ornament large plates of glass by grinding the same, because the operator was not able, on account of their size, to lift and handle them with sufficient ease to insure perfect work.

The object of my invention is to obviate this difficulty, which is accomplished in the manner above stated, as has been practically demonstrated.

In order that others may so understand my invention as to be able to make and use my apparatus, I will now proceed to describe the same more fully in detail, referring to the accompanying drawing.

In the drawings—

A is a balance-beam, secured between the sides *a* of a frame, B, by means of a pivot, *b*, passing through the same.

The upper end of this frame B is provided with swivel-hook, C, which hooks into a hole in a suspending-bar, D, which is itself secured to the ceiling in any suitable manner.

On the shorter arm of the balance-beam B, I place a sliding weight or weights E, which are provided with set-screws *e*, for securing the same on said beam B when adjusted.

A fixed stop, *d*, is placed at the extreme end of the shorter arm of the balance-beam B, to limit the movement of the weights E.

From the longer arm of the balance-beam B, a rope, or chain F, depends, the lower end of which may be provided with a hook, G.

Clasps H H, for holding the glass I, are suspended from the hook G by any suitable means.

In using my invention, a plate of glass, I, is first placed within the clasps H H, said clasps being drawn together until they are sufficiently tight to keep the glass steady in the hands of the workman. The weight or weights are then moved backward or forward, as the case may be, until the glass is evenly balanced and stands in mid-air without the aid of the workman, thereby removing all labor.

The operator may then turn and hold the glass in any position he may desire, the swivel-screw C, in the upper end of frame B, greatly facilitating the movement of the same.

In performing the operation of grinding, the glass I is held in any position the operator may desire over the grinding-stone, which is shown in red.

It will be readily perceived that my invention is both simple and useful, doing away with the old system of holding the glass in the hands, thereby saving much time and labor.

By this device, large plates of glass, which it was heretofore impossible to ornament by grinding with a stone, may be as easily handled as those of smaller dimensions.

The advantages of my improvement will be appreciated by those engaged in the ornamentation of glass by grinding, and will be obvious to all.

I wish to state that I do not limit myself to the precise construction and arrangement of parts as herein described, as these may be varied somewhat, without departing from the nature of my invention; still, I have found the apparatus herein set forth to operate with very good results.

I do not claim, broadly, the use of the balanced beam, for this is an old device; but

What I do claim, is—

The device for handling plates of glass, consisting of beam A, adjustable weight E, swivel C, hook G, and clasps H, combined and operating as described.

To the above specification of my invention, I have signed my name, this 21st day of January, 1869, in the presence of two subscribing witnesses.

Witnesses:

THOMAS JONES.

JAMES W. POE,
SAML. TORBERT.