(No Model.)

W. T. SMITH.

PIANO STOOL.

No. 505,256. Patented Sept. 19, 1893.

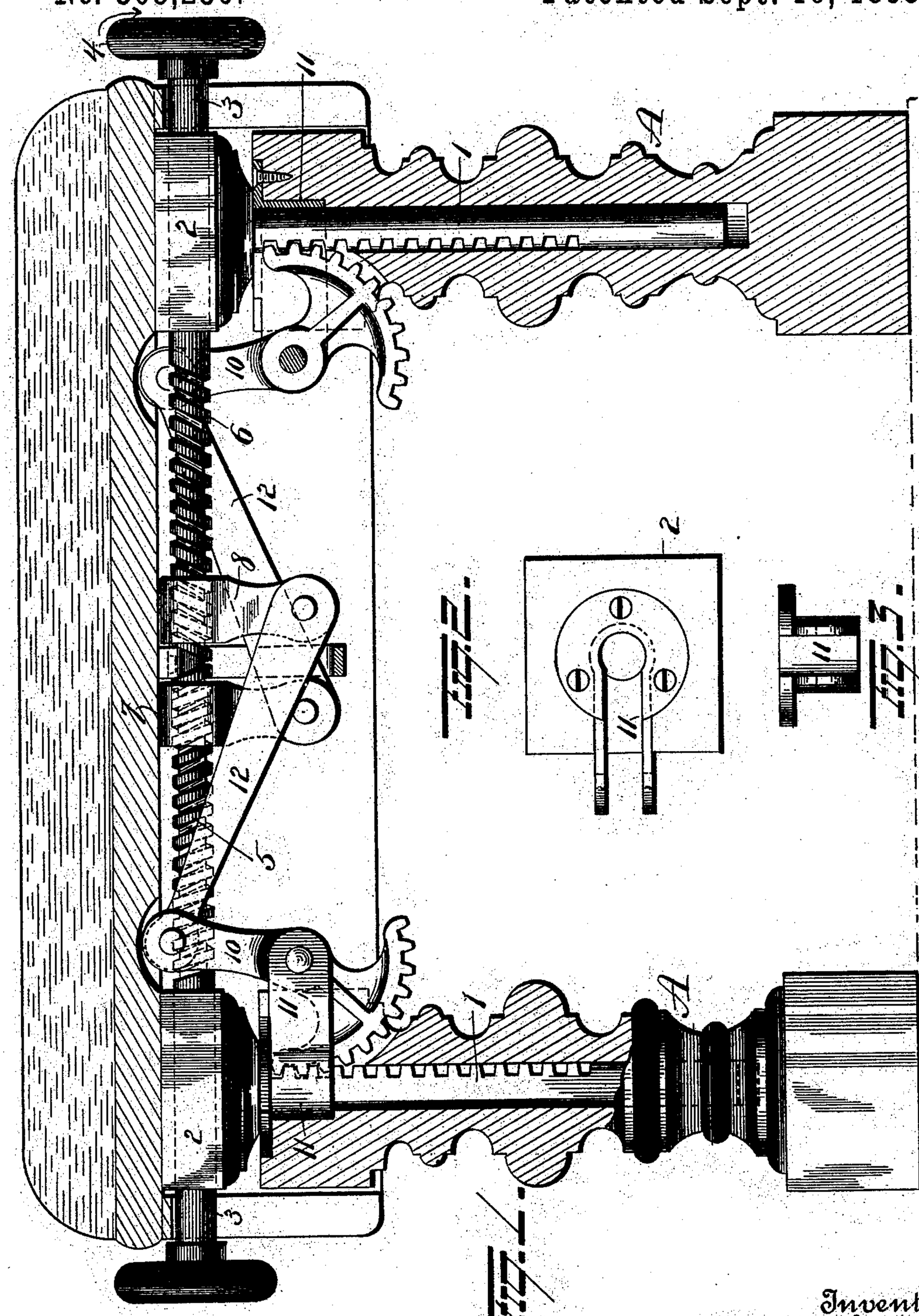

Fig. 2.

Fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

WILLIAM T. SMITH, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE WM. KNABE & CO. MANUFACTURING COMPANY, OF SAME PLACE.

PIANO-STOOL.

SPECIFICATION forming part of Letters Patent No. 505,256, dated September 19, 1893.

Application filed March 25, 1893. Serial No. 467,592. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM T. SMITH, of Baltimore, Maryland, have invented certain new and useful Improvements in Piano-Stools; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to an improvement in adjustable piano stools the object being to provide a stool which can be raised or lowered by the performer while seated on the stool by the use of either the right or left hand or both.

With this end in view my invention consists in certain novel features of construction and combinations of parts which will be hereinafter described and pointed out in the claims.

In the accompanying drawings, Figure 1 is a view in elevation partly in section, of my improved construction and Figs. 2 and 3 are details.

A A represent a pair of legs adapted to rest upon the floor and support the top and all other parts of the stool. These legs are bored out through their longitudinal centers and in each one a rack bar 1, is fitted to slide up and down. The rack bars terminate at their upper ends in heads 2, 2, upon which the seat of the stool is supported.

Through the heads 2, 2, a single shaft 3 passes horizontally. This screw is capable of being turned in either direction in the heads as bearings and to this end is provided on one or both ends with a knob or hand wheel 4. These are in position where they may be readily reached by the pianist without moving from the seat and while the shaft may be turned from either knob or wheel, if desired both may be manipulated at once and in fact this is the intention.

The shaft is provided with right and left screw threads 5 and 6 and blocks 7 and 8 having threaded bores to conform to these threads, are loosely mounted on the respective screw threads. Rock levers 10, 10, are pivoted to the legs or to the U-shaped plates 11, 11 secured in the legs and these levers are provided with rounded toothed segments on their outer ends the teeth of which are adapted to engage the teeth of the racks. The opposite ends of the levers are connected with the blocks 7 and 8 by means of links 12, 12.

It will be understood from the construction that to raise the seat of the stool, the knobs or wheels, one or both of them as the case may be are grasped and turned in the direction indicated by the arrow. This causes the blocks 7 and 8 to move apart, or outward on the shaft 3 which causes the upper ends of levers 10, 10, to rock toward each other and in consequence raises the rack bars and the attached seat. To lower the seat, the knobs or wheels are turned in the opposite direction.

Changes might be made in the details of construction without departing from the spirit and scope of my invention and hence I do not wish to limit myself to the exact construction herein set forth, but,

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a stool, the combination with a pair of legs, rack bars having sliding connection with the legs, and heads on the upper ends of the rack-bars, of a shaft having right and left threads formed thereon, blocks having threaded bores, with which the threads of the shaft engage toothed levers pivotally connected with the legs links connecting said levers with the blocks whereby the levers are rocked and the racks are raised or lowered with the turning of the shaft, and seat carried by the elevating mechanism substantially as set forth.

2. The combination with a pair of legs and rack bars adapted to slide therein, said rack bars having heads on their upper ends, of a shaft passing through and adapted to turn in these heads, said shaft having right and left screw threads formed thereon and provided with wheels or knobs on one or both ends,

blocks having threaded bores mounted on the shaft, rock levers pivoted to the legs and provided with rounded segments having teeth adapted to engage the teeth of the racks links connecting said levers to the blocks, and seat carried by the elevating mechanism substantially as set forth.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

WILLIAM T. SMITH.

Witnesses:
GUSTAV BARTEL,
WM. H. JONES.