J. JENNINGS.
Piano-Stool.

No. 208,823. Patented Oct. 8, 1878.

Fig 1

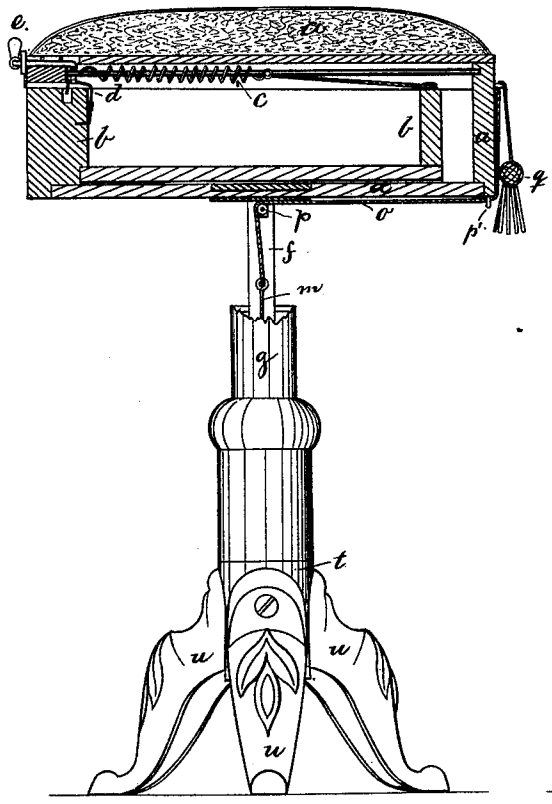
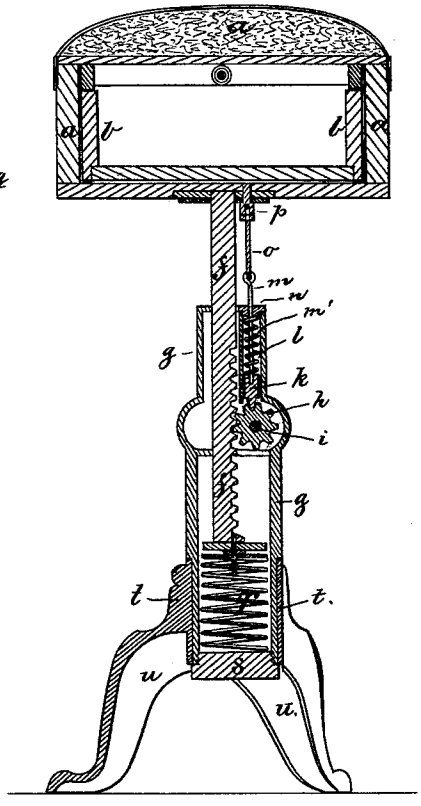


Fig 2.



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UNITED STATES PATENT OFFICE.

JOHN JENNINGS, OF BELFAST, IRELAND, GREAT BRITAIN.

IMPROVEMENT IN PIANO-STOOLS.

Specification forming part of Letters Patent No. **208,823**, dated October 8, 1878; application filed April 25, 1878.

To all whom it may concern:

Be it known that I, JOHN JENNINGS, of Belfast, Antrim county, Ireland, Great Britain, have invented certain Improvements in Music-Stools, of which the following is a specification:

My invention relates to improvements in music-stools for pianos, organs, &c.

The invention consists in mechanism for raising and lowering the stool and holding it firmly in any adjusted position.

The shank or spindle, projecting downward from the under side of the seat, is made as a toothed bar or rack, that is adjustable up and down within a revolving sleeve, that is free to rotate around its axis within a vertical bearing made in the base or foot piece.

In the revolving sleeve is located a loosely-running pinion, that is geared into the teeth of the aforesaid toothed rack; and for the purpose of locking the said pinion to its rack in any desired position of the latter, I employ a vertically-adjustable tooth or pawl, actuated downward by means of a spring, so as to be forced between two successive teeth on the aforesaid pinion. The said pawl is guided up and down within a correspondingly-shaped channel or tunnel, and is provided with an upward-projecting rod or wire, that is connected in its upper end to a cord, that is guided in suitable pulleys attached to the under side of the seat, to one side of the latter, where it terminates in a knob, loop, or tassel, by which arrangement the said pawl can easily be unlocked from its pinion, when the toothed rack is free to be moved up or down, as may be required; and when the seat is in its proper position it can instantly be locked and firmly secured simply by letting go the hold of the aforesaid knob or tassel attached to the cord that operates the pawl.

A flexible coiled spring is located in the lower part of the rotary shell containing the toothed rack, and acting to force the latter upward as soon as released by the pawl, so that the seat will rise automatically as soon as the aforesaid pawl is drawn upward without the need of lifting it by the hands, which is a great improvement over the ordinary stools. The only thing needed to operate the stool is to release the pawl by pulling on the knob or tassel on one side of the seat, when the latter will rise automatically if the person sitting thereon rises, and will descend if the operator keeps seated. When the seat is in the desired position it can instantly be secured and locked, as above described.

The lower part of the rotary sleeve is provided with a screw-threaded head, that serves two purposes, viz., as a support for the coiled spring acting upon the toothed rack, and as a flange or collar to connect the rotary sleeve to the base or foot piece, so that it may revolve freely therein without being detached.

On the accompanying drawings, Figure 1 represents a sectional elevation of my improved music-stool. Fig. 2 represents a vertical section of the same at a right angle to that shown in Fig. 1.

f is the toothed rack, movable up and down in a vertical bearing in the rotary sleeve *g*, as shown. *h* is the loose pinion gearing into the toothed rack *f*, and revolving loosely on its pin *i*. *k* is the movable pawl. (Shown in a locked position in relation to the pinion *h* in Fig. 2.) *l* is the channel or tunnel, in which the said pawl is movable up and down. *m* is the rod or wire attached to said pawl, which wire projects through the cap or plate *n*, as shown in said Fig. 2. *o* is the cord attached to the upper end of the rod or wire *m*, and passing through the guide-pulleys *p p'*, on the under side of the seat, for the purposes described. *q* is the knob or tassel in the end of the cord *o*, by which the pawl *k* is operated. *m'* is the coiled spring surrounding the rod *m*, and acting on the upper side of the pawl *k*, so as to hold it automatically in a locked position until released by pulling the cord *o*. *r* is the coiled spring in the lower part of the rotary sleeve *g*, resting in its upper end against a washer on the lower end of the rack *f*, and in its lower end against the screw-threaded cap *s*, as and for the purpose set forth. *t* is the base or support in which the sleeve *g* is allowed to rotate, as may be desired. The base *t* is provided with three or more feet, *u u u*, as may be required.

I do not claim in this application the drawer and the spring-locking device represented in

Fig. 1, as such may form the subject of a separate application for Letters Patent.

What I desire to claim, and secure by Letters Patent, is—

The combination, with the base *u* and rotary sleeve *g*, provided with the pinion *h*, of the seat-rack *f*, the elevating-spring *r*, the vertical sliding pawl *k*, engaging the pinion, and the operating cord or wire, all substantially as and for the purpose described.

JOHN JENNINGS.

Witnesses:
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