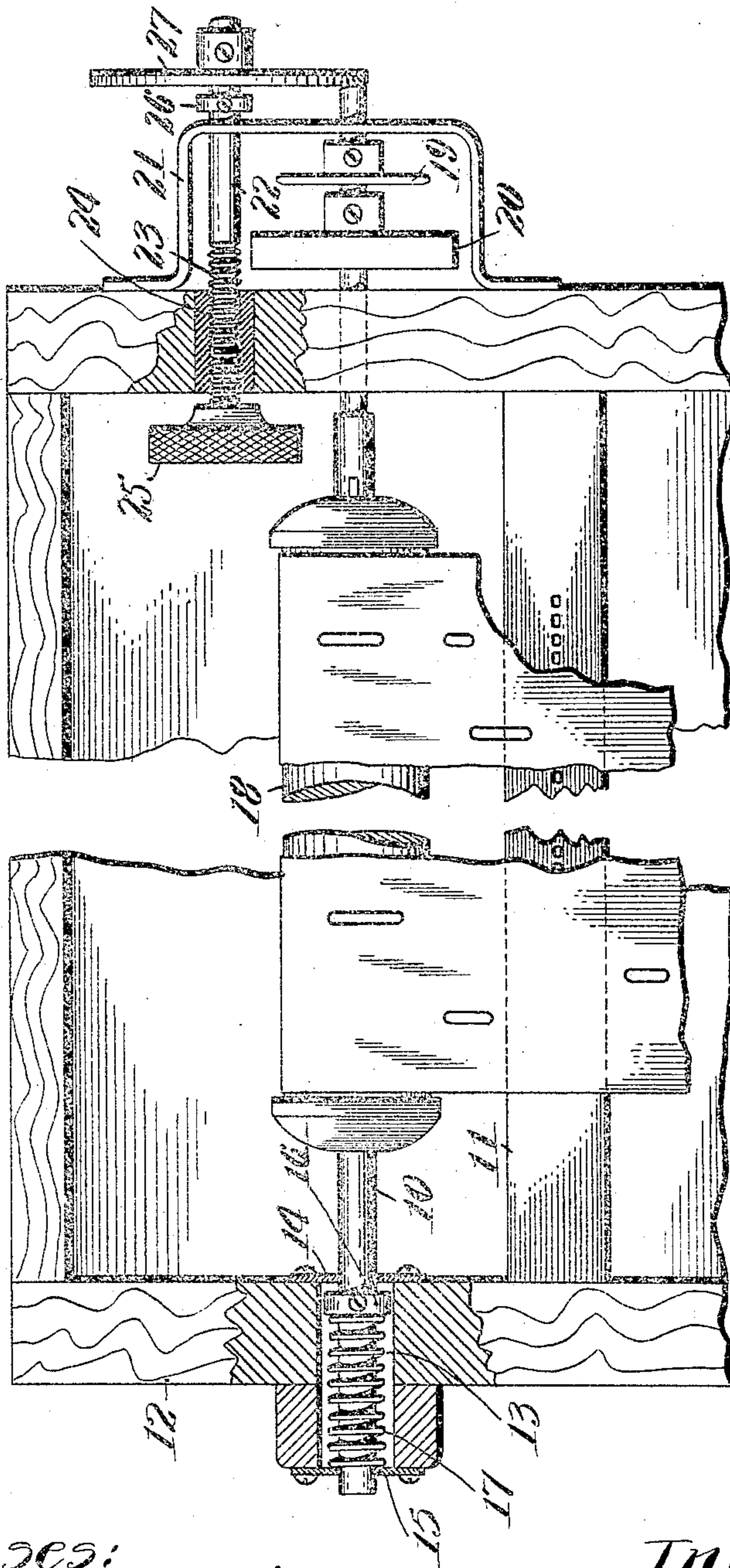


No. 862,608.

PATENTED AUG. 6, 1907.

T. P. BROWN.
MUSIC SHEET MECHANISM.
APPLICATION FILED MAY 21, 1907.



Witnesses:
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UNITED STATES PATENT OFFICE.

THEODORE P. BROWN, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO SIMPLEX PIANO
PLAYER CO., OF WORCESTER, MASSACHUSETTS.

MUSIC-SHEET MECHANISM.

No. 862,608.

Specification of Letters Patent.

Patented Aug. 6, 1907.

Application filed May 21, 1907. Serial No. 374,891.

To all whom it may concern:

Be it known that I, THEODORE P. BROWN, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Music-Sheet Mechanism, of which the following is a specification.

This invention relates to an adjusting device for music rolls used on piano players and automatic pianos.

The principal objects of the invention are to provide a convenient and simple means for accomplishing this result embodied in such a form that the adjusting devices can consist of only a few elements and can be located in such a position as to occupy very little space.

Further objects and advantages of the invention will appear hereinafter.

Reference is to be had to the accompanying drawing which illustrates a preferred embodiment of the invention and which shows the same in plan with parts in section.

The drawing shows the invention as applied to an ordinary type of musical instrument in which a rotatable and longitudinally shiftable shaft 10 is mounted adjacent to the tracker bar 11 in a frame 12. This frame is provided with a perforation 13 having plates 14 and 15 at its ends. The shaft is provided with a collar 16 and a spring 17 is mounted in the perforation and bears against the collar and the outside plate 15 so as normally to force the shaft to the right in this figure. The shaft is provided with a spool 18, as usual, on which the music sheet is wound and which has a bearing in the opposite side of the frame and passes through the same. It is operated by means of mechanism, not shown, connected through a chain with a sprocket wheel 19. This sprocket wheel and brake wheel 20 are mounted outside the frame 12 and within a U-shaped bracket 21 mounted on the frame. The shaft passes through the bracket and extends beyond the outer face of the same. It will be obvious that the spring 17 will normally force the shaft over to the right until the hub of the sprocket wheel bears against the frame 21.

The purpose of this invention is to provide adjustable means for bearing on the end of the shaft to hold the same back to any desired degree and to construct this means in a simple and inexpensive manner. For this purpose a shaft 22 is mounted in a bearing in the bracket 21, this shaft having a screw-thread 23 passing through a tapped bushing 24 supported by the frame.

On the end of this is mounted a head 25 by means of which the shaft may be adjusted in and out.

The shaft 22 is provided with a collar 26 to limit its motion in one direction and with a disk 27 secured to the shaft and bearing on the end of the shaft 10. By turning the head 25, the position of the disk 27 can be regulated and the motion of the shaft to the right limited so that the music sheet can be adjusted to proper position with respect to the tracker bar.

On account of the end of the shaft 10 being rounded or pointed, the bearing of the same on the disk 27 will not materially add to the friction of the device.

While I have illustrated and described a preferred form of the invention, I am aware that modifications may be made therein by any person skilled in the art without departing from the scope of the invention as expressed in the claims. Therefore, I do not wish to be limited to the particular form shown, but

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

1. The combination with a spring-pressed spool shaft, of adjustable means engaging the free end thereof for limiting the position thereof, said adjustable means comprising a movable shaft and a disk thereon engaging the end of the spring-pressed shaft.

2. In a music sheet device, the combination of a spool, a shaft supporting said spool, a spring for normally forcing said shaft longitudinally in one direction, a tapped bushing, a screw-threaded shaft mounted in the tapped bushing, a head on said screw-threaded shaft for adjusting it, and a disk mounted on said screw-threaded shaft bearing on the free end of the spool shaft.

3. In a music sheet device, the combination of a tracker box frame having a perforation in one side thereof, a plate mounted on the inside of said perforation, a plate covering the outer end of said perforation, said plates having bearings, a shaft mounted in the bearings in said plates, a bearing in the opposite side of said frame, a collar on said shaft in the perforation, a spring on the shaft between the collar and the outside plate, a music sheet spool on the shaft, a bracket on the outside of said frame through which the free end of said shaft projects, means for transmitting motion to the shaft located inside said bracket, a bushing mounted in said frame and having screw-threads, a threaded shaft in said bushing, said shaft being adjustable longitudinally and parallel with the shaft and passing through said bracket, and a disk on the outer end of said screw engaging the free end of said shaft.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing witnesses.

THEODORE P. BROWN.

Witnesses:

J. ELMER HALL,
ALFRED H. SAMSON.