

No. 634,995.

Patented Oct. 17, 1899.

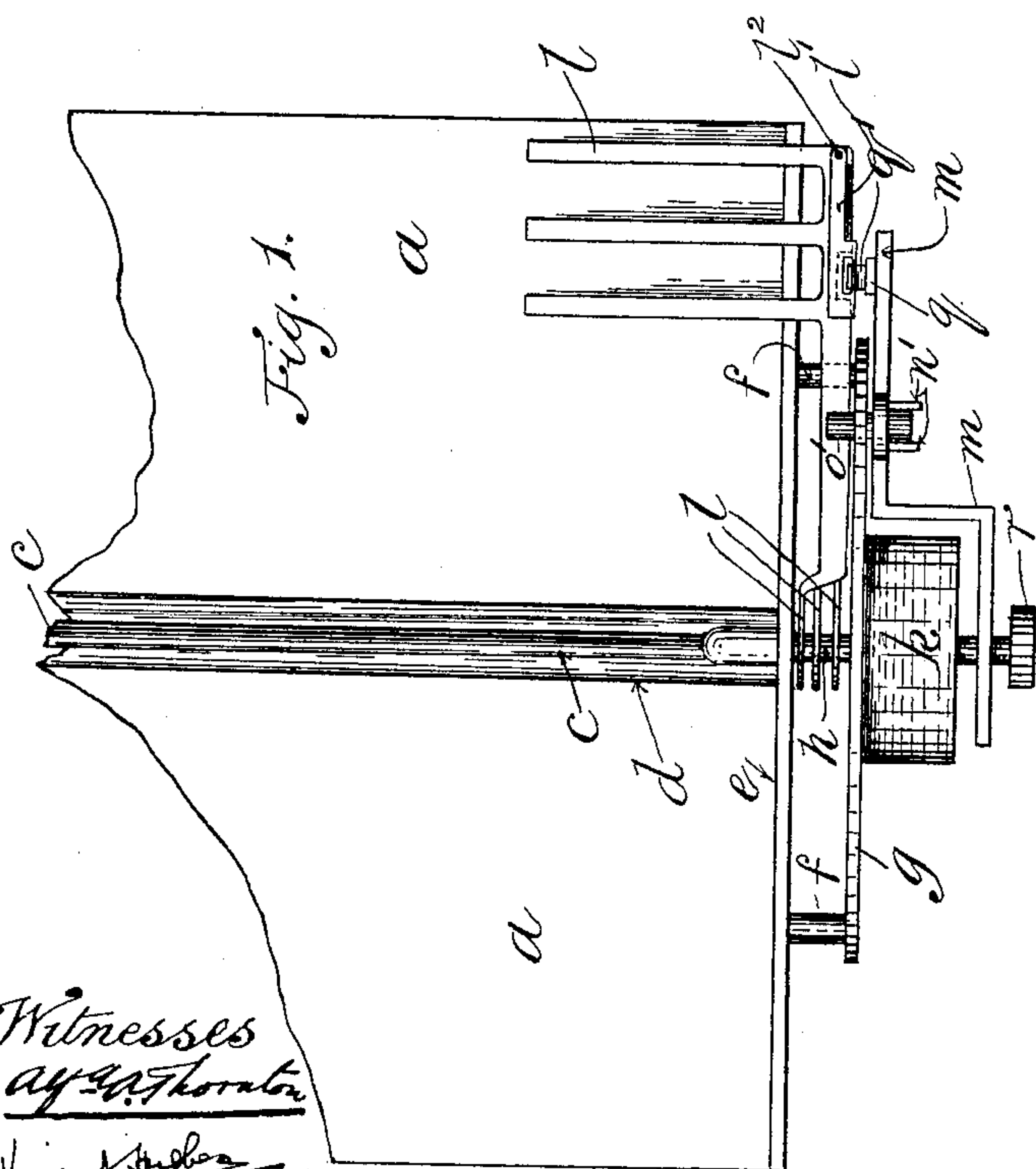
W. J. PITT.

APPARATUS FOR TURNING OVER LEAVES OF MUSIC.

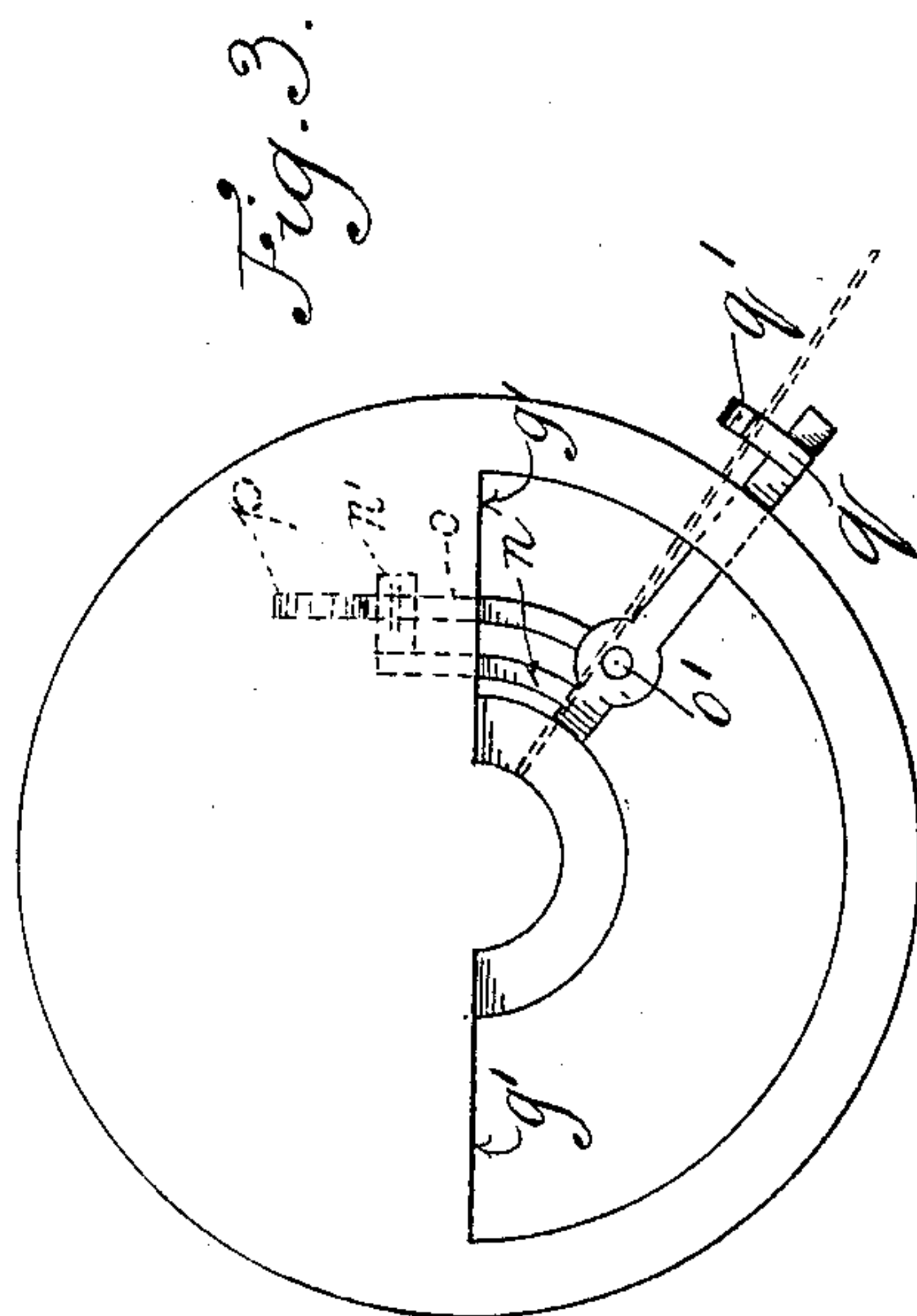
(Application filed Nov. 8, 1897.)

(No Model.)

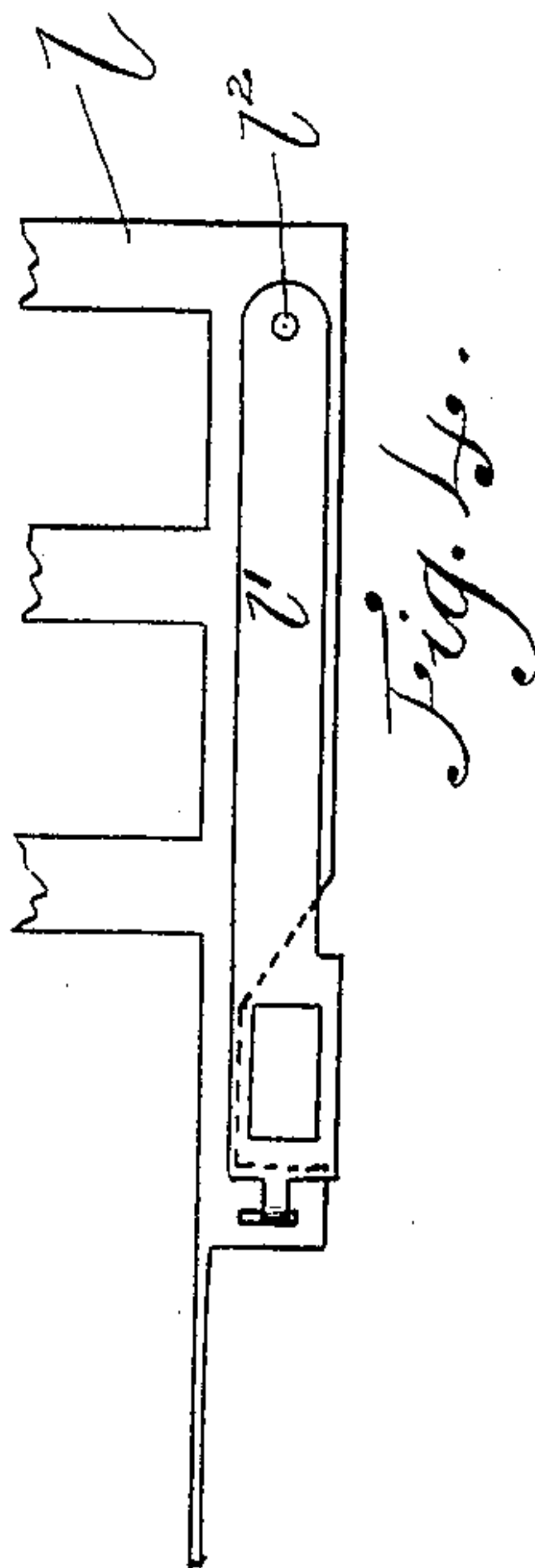
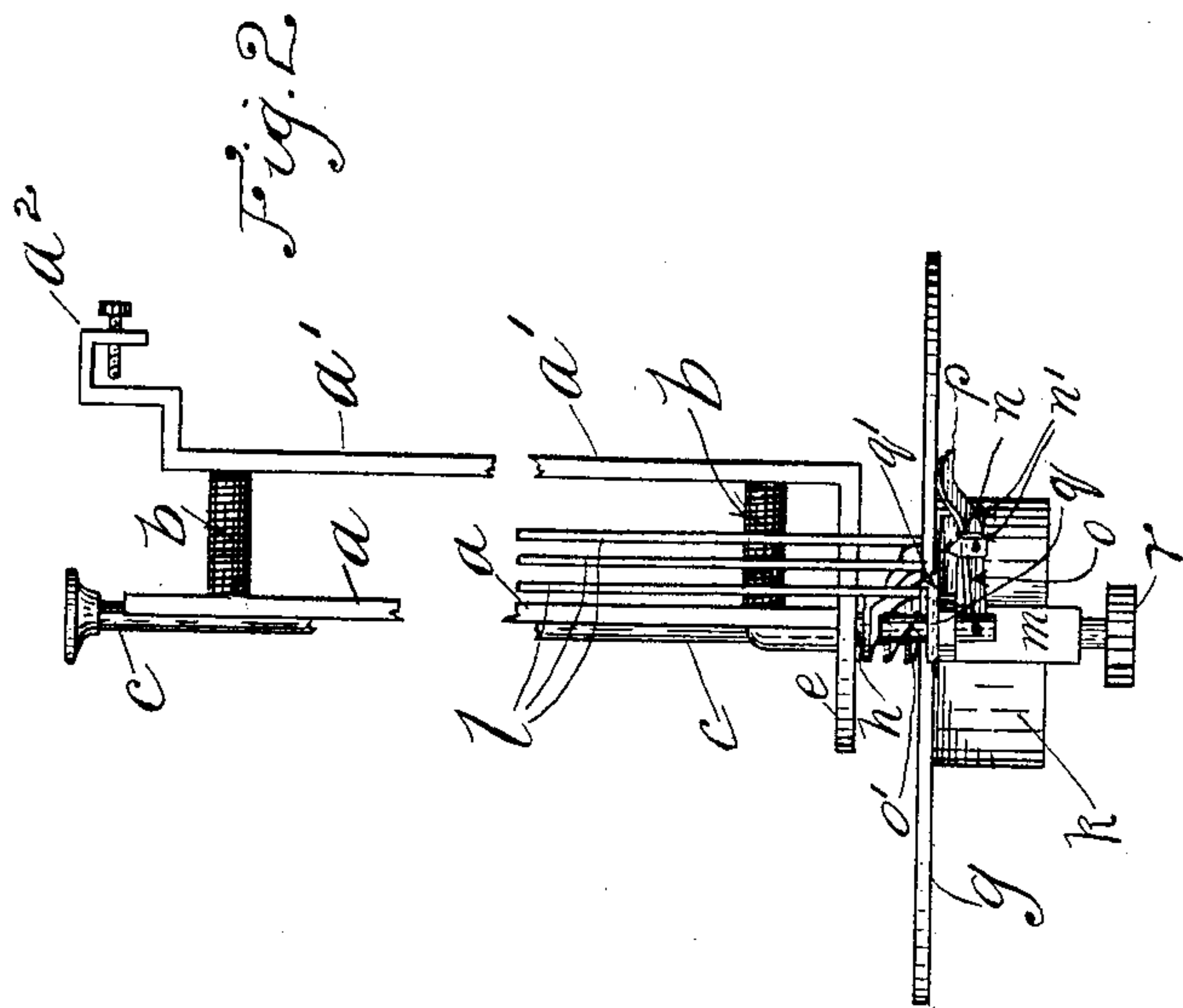
2 Sheets—Sheet 1.



Witnesses
at Thornton
Vincent Hughes



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By Edward S. Hughes
Attorney



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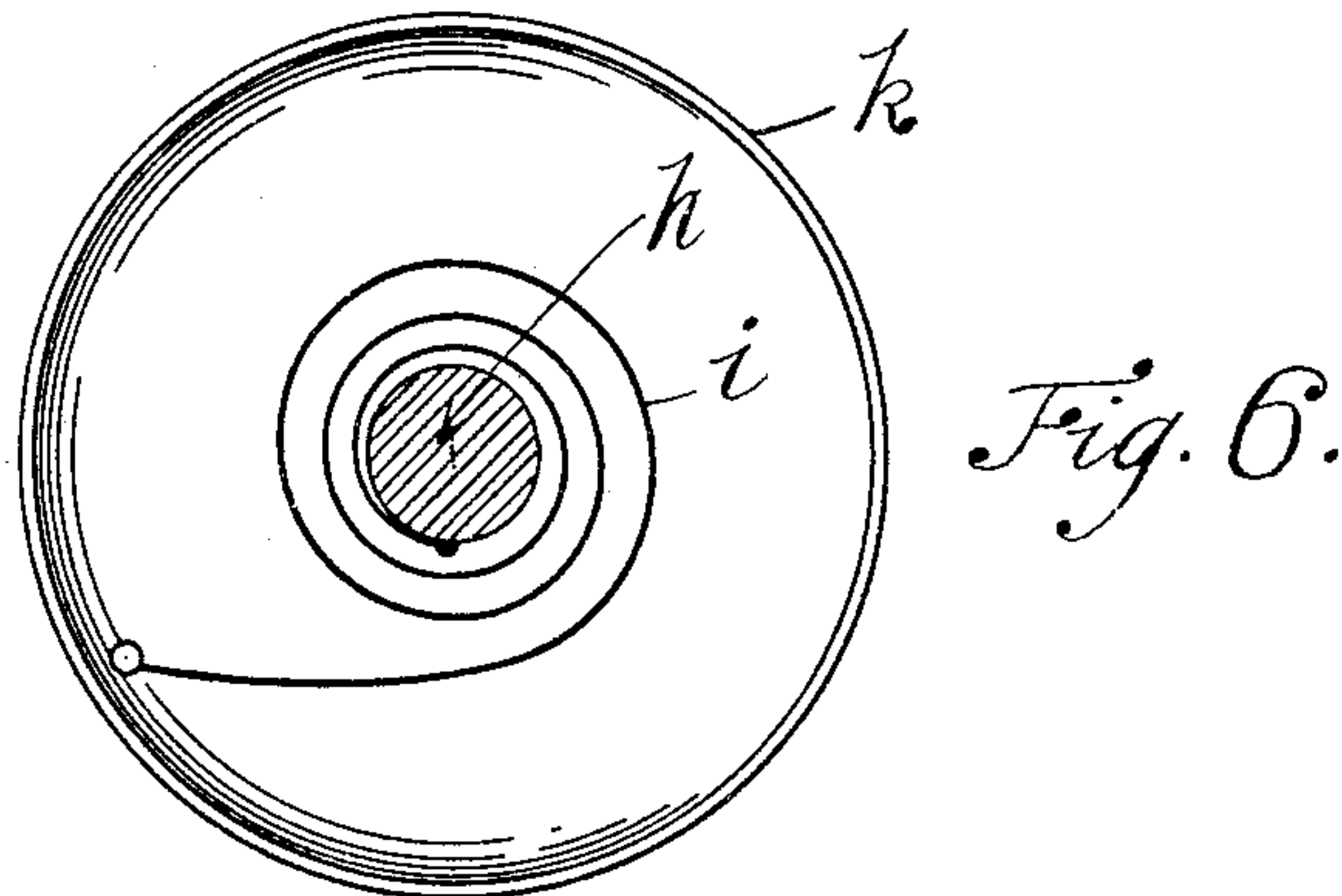
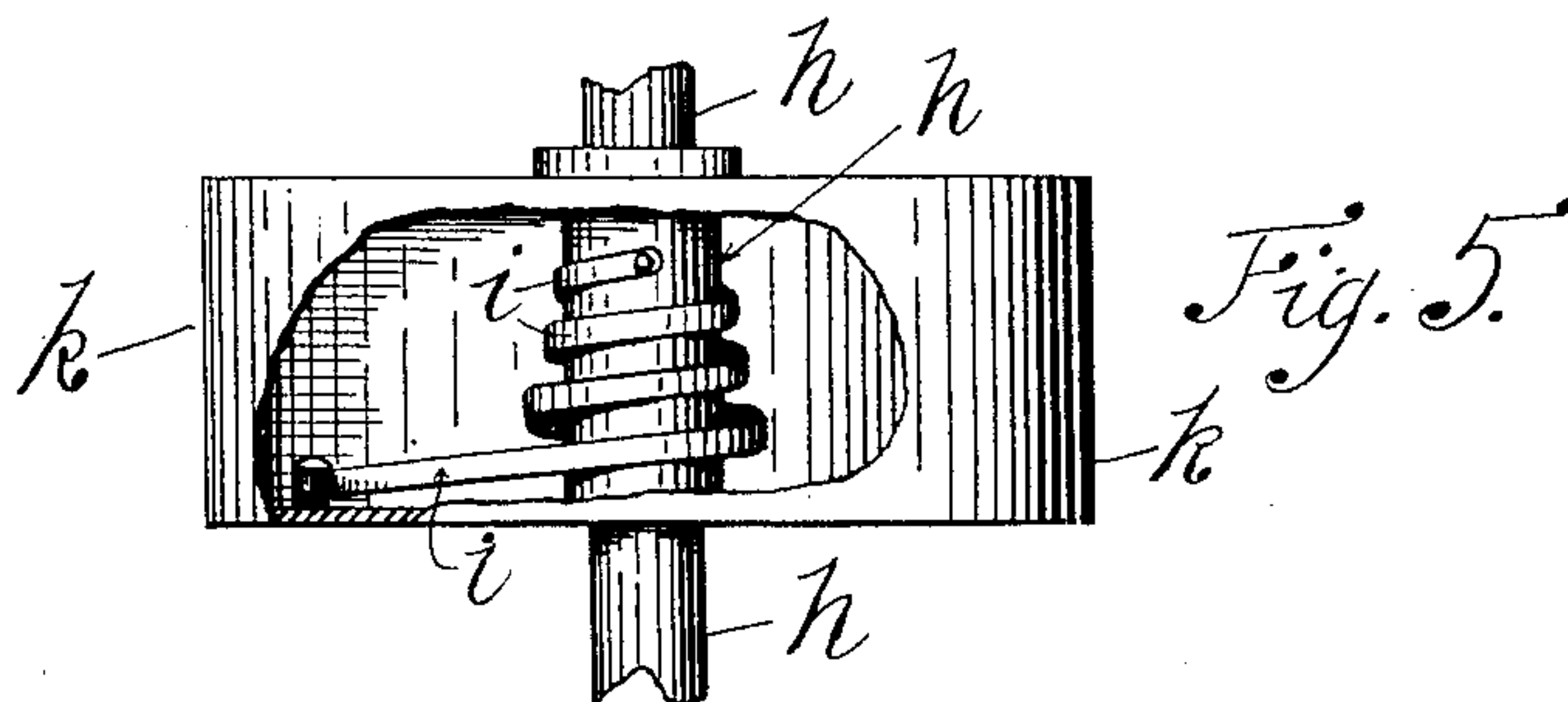
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2 Sheets—Sheet 2.



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UNITED STATES PATENT OFFICE.

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APPARATUS FOR TURNING OVER LEAVES OF MUSIC.

SPECIFICATION forming part of Letters Patent No. 634,995, dated October 17, 1899.

Application filed November 8, 1897. Serial No. 657,896. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM JOSEPH PITT, a subject of the Queen of Great Britain, residing at Weymouth, in the county of Dorset, England, have invented new and useful Improvements in Apparatus for Turning Over the Leaves of Music, (for which I have obtained a patent in Great Britain, No. 25,112, bearing date December 27, 1894,) of which the following is a specification.

This invention relates to improvements in apparatus for turning over the leaves of music and the like, which I will now proceed to describe with reference to the accompanying drawings, upon which—

Figure 1 represents in front elevational view an apparatus for turning over the leaves of music and the like constructed in accordance with this invention, Fig. 2 being an end elevational view of the same. Fig. 3 is a plan view of a detail of the invention, and Fig. 4 an elevational view of a broken-away portion of another detail. Fig. 5 shows in elevation the arrangement of the returning-spring, the box in which it is contained being partially broken away, while Fig. 6 is a plan view of Fig. 5, with the top of the box removed and a portion of the mechanism shown in section.

Similar letters of reference indicate like parts in each of the figures.

The apparatus consists of a double frame *a a'* of a convenient shape and size, the under or rear portion *a'* of which is adapted to be clamped, as at *a²*, upon the top of a piano or the like. The two parts have suitable springs *b* superposed between them to keep the upper or front part *a* of said double frame pressed to the front, so as to securely hold the music-copy, for instance, in conjunction with a vertical rod *c*, which passes down in a groove or recess *d* in the face of the front part *a* of such double frame, behind which the music is placed.

To the bottom *e* of the double frame *a a'* is adjustably secured, preferably by depending screw-threaded rods *f*, a plate *g*, through which the spindle *h* passes. Around the spindle *h* (below the plate *g*) is coiled a spring *i*. This may, if desired, be inclosed in a box *k*, attached to the under side of plate *g*. Upon the upper part of the spindle *h* and above the

plate *g* are loosely mounted a number of arms or turners *l*, and to the lower part of the aforesaid spindle *h*, below the coiled spring *i*, is fixed a bent throwing-arm *m*, carrying plate *n*. Bearings *n'* are formed at the rear end of the plate *n*, and therein is pivoted the bar or lever *o*, which is turned up at the forward end *o'*, said turned-up portion *o'* passing through an opening provided in the throwing-arm *m*. The turned-up portion *o'* of the bar or lever *o* normally drops below the level of the rectangular plate *n* and throwing-arm *m*, except when the curved end *p* of the bar or lever *o* passes under the plate *g*, when the end *o'* projects above the surface of the plate *n* and throwing-arm *m*, as seen in the drawings. A wedge or catch *q* is provided at the free or outer end of the bent throwing-arm *m*, this wedge *q* being suitably shaped to permit of its engaging (when said throwing-arm is turned) with one of the arms or turners *l* at a time. The partial revolution necessary for turning over the sheet of music or the like may be given to the spindle *h* by the action of the hand upon the milled head *r*, fitted at the bottom end of the spindle, or a pulley may be fixed upon the spindle and a chain or cord lead therefrom through suitable guides to a pedal to permit of the music being turned over by a movement of the foot. The action of the coiled spring returns the bent throwing-arm and lever *o* immediately it is released, when it takes up position ready for turning the next sheet.

In operation the spindle *h* is turned by means of the milled nut *r*, which spindle carries the throwing-arm *m* and turner *l*, engaged by catch *q* on the same, and plate *n*, having attached in bearing *n'* the lever *o*, the turned-up end *o'* of which drops below the level of the surface of the throwing-arm *m* when the end *p* thereof passes from under the plate *g*. When the operation of turning the leaf over is completed, the spiral spring *i* returns the throwing-arm to its normal position ready for turning the next leaf—that is to say, the action of the spring causes the throwing-arm *m* and its attachments to fly back. When the end *p* of the lever *o* strikes the edge *g'* of the plate *g* and passes underneath the same, as shown in Fig. 3, the end *o'* passes upward through the aperture in the throw-

ing-arm *m* and prevents the said throwing-arm from passing beyond the first turner, with which the catch *q* engages. The manner in which the said catch *q* engages with the turner 5 *l* is as follows: When the wedge-shaped portion *q'* of the catch *q* comes in contact with the plate *l'*, attached to the turner *l*, it forces the said plate *l'* upward about its pivot *l''*, which plate *l'* falls and engages in catch *q* 10 immediately the same has passed beneath it and is prevented passing farther by means of the projection *o'* of the lever *o*. The end *o'* of the lever *o* is prevented from falling below the level of the plate *g* only during such time as 15 the end *p* of said lever *o* is abutting against the under side of the said plate *g*. In order to prevent the lever *o* from dropping so far below the plate *g* that upon the return of the throwing-arm *m* the part *p* would become engaged with the edge *g'* of the plate *g*, the part 20 *n'* of the arm *n* is so constructed that it bears against the lever *o*.

What I claim as my invention, and desire to secure by Letters Patent of the United 25 States, is—

1. In apparatus for turning over the leaves of music and the like, the combination and arrangement of double frame *a a'* connected by springs *b* with the vertical rod *c* passing 30 down suitable groove *d* formed in the face of

the front portion *a* of the double frame afore-said for the purpose of securely holding a sheet or book of music and the like, substantially as shown and described.

2. In apparatus for turning over the leaves 35 of music and the like, the combination with a coiled spring *i* mounted upon a spindle *h*, of the turning-arms *l* mounted loosely upon same spindle and the lever or arm *m* arranged with wedge or catch *q* and locking bar or lever *o* 40 at its free end, all operated by partially rotating the spindle *h*, substantially as hereinbefore described and shown.

3. In apparatus for turning over the leaves of music and the like, the combination and 45 arrangement of the double frame *a a'* springs *b*, vertical rod *c*, groove or recess *d* in front part of frame *a*, bottom plate or book-rest *e*, connecting-pins *f*, plate *g*, spindle *h*, coiled spring *i*, arms or turners *l*, throwing-arm *m* 50 having an end *n*, bearings *n'*, pivoted bar or lever *o* with turned-up end *o'* and curved end *p*, wedge or catch *q*, and suitable turning media in connection with spindle *h*, all constructed and operating substantially as here- 55 inbefore described and shown.

WILLIAM JOSEPH PITT.

Witnesses:

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ALFRED A. THORNTON.