W. N. ANDERSON.

MUSIC STAND.

APPLICATION FILED JAN. 8, 1909.

1,013,718.

Patented Jan. 2, 1912.

2 SHEETS—SHEET 1.

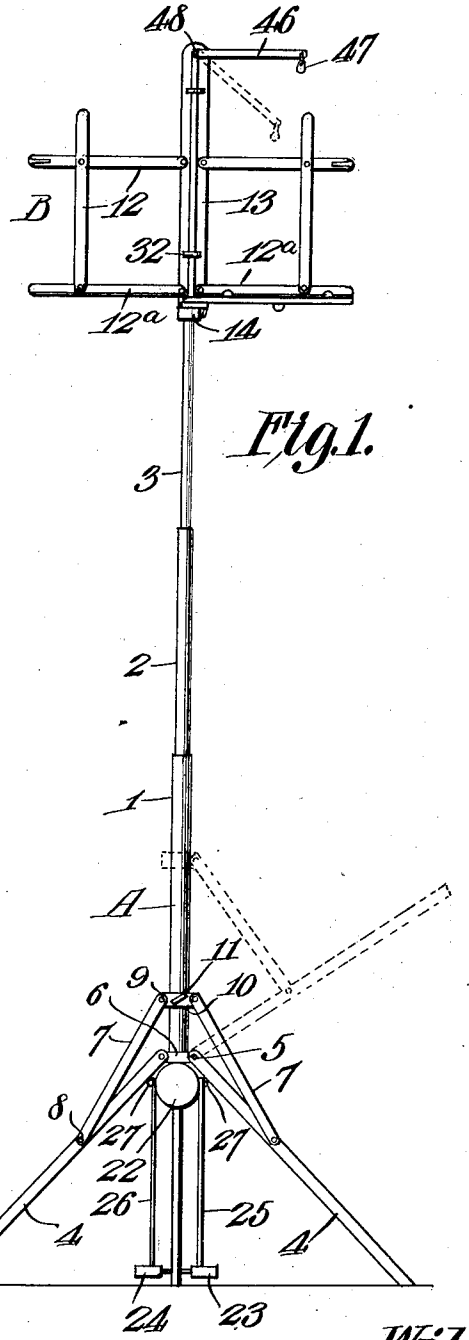

Fig. 1.

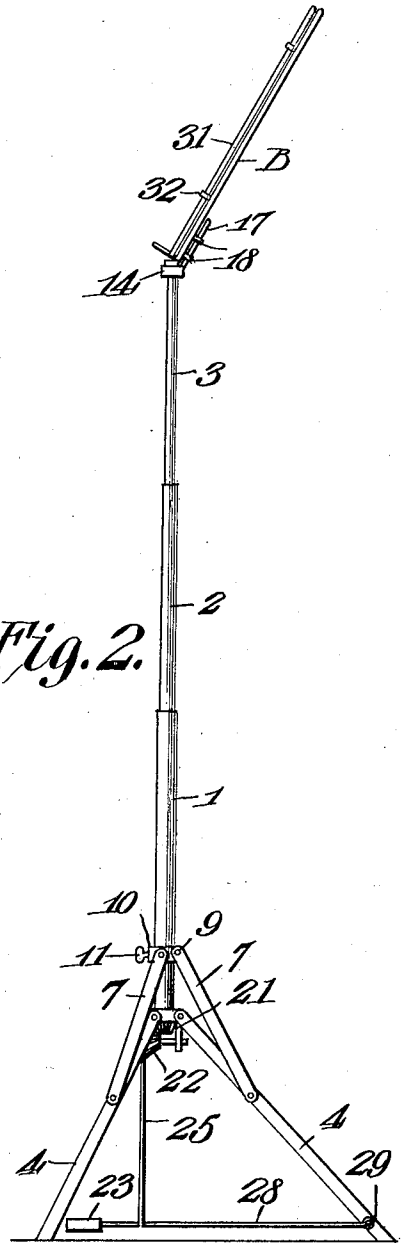

Fig. 2.

Witnesses

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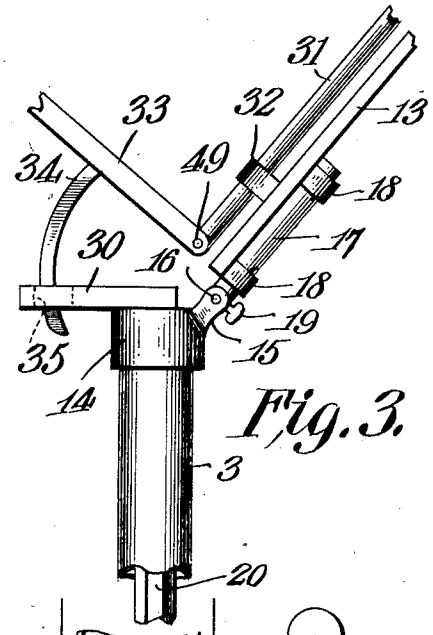

Fig. 3.

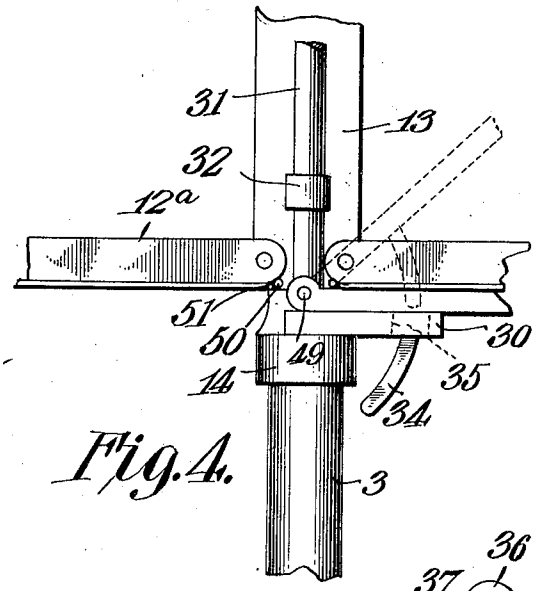

Fig. 4.

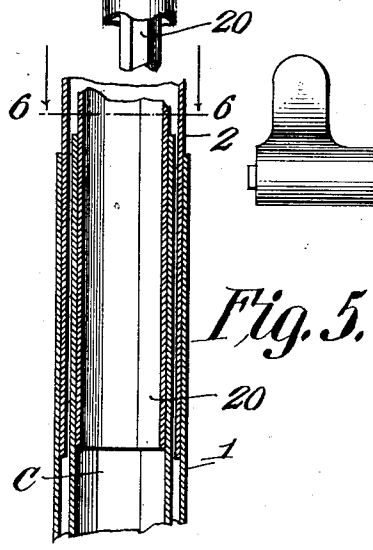

Fig. 5.

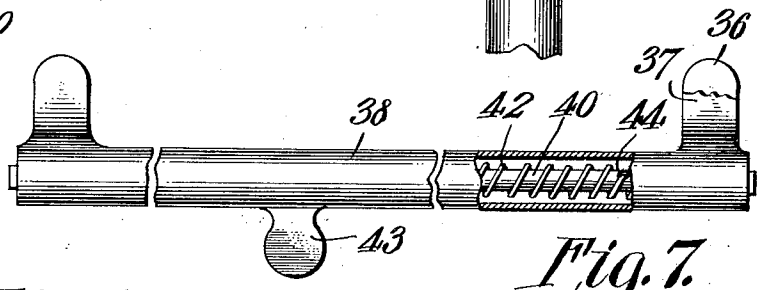

Fig. 7.

Fig. 6.

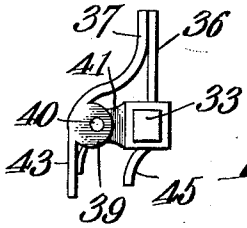

Fig. 8.

Witnesses

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UNITED STATES PATENT OFFICE.

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MUSIC-STAND.

1,013,718. Specification of Letters Patent. Patented Jan. 2, 1912.

Application filed January 8, 1909. Serial No. 471,303.

To all whom it may concern:

Be it known that I, WILLIAM N. ANDERSON, a citizen of the United States, residing at Troy, in the county of Latah and State of Idaho, have invented new and useful Improvements in Music-Stands, of which the following is a specification.

This invention relates to music stands of that class disclosed in my patent application Serial No. 425,241, and the invention relates more particularly to improvements in a music rest or frame of the stand and in the music-turning elements whereby the said frame can be tilted at any desired angle to place the music in the most suitable position for the player.

The invention has for one of its objects to improve and simplify the construction and operation of devices of this character so as to be comparatively simple and inexpensive to manufacture, reliable and efficient in use, and readily manipulated.

A further object of the invention is the provision of a music rest or frame adjustably mounted on the standard or other support and provided with a music-turning element adapted to be operated by pedals.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claims appended hereto.

In the accompanying drawings, which illustrate certain embodiments of the invention, Figure 1 is a front view of the music stand. Fig. 2 is a side view thereof. Fig. 3 is a fragmentary side view showing the manner of supporting the frame or music rest on the standard. Fig. 4 is a front view of Fig. 3. Fig. 5 is a sectional view of the standard showing the telescopic sections thereof. Fig. 6 is a transverse section line 6—6, Fig. 5. Fig. 7 is a front view of the swinging arm of the leaf turner, the portions of the arm being broken away. Fig. 8 is an end view of Fig. 7.

Similar reference characters are employed for designating corresponding parts throughout the views.

Referring to the drawing, A designates the standard of the stand which consists of a plurality of telescopic sections 1, 2 and 3, whereby the standard can be expanded or contracted, and the lower section is supported on legs 4 that are pivotally connected at 5 to a collar 6 fixed on the lower end of the standard, and these legs are braced in extended position by links 7 which are pivotally connected at 8 with the legs, and at 9 with a slidable collar 10 on the lower end of the standard, the collar being clamped in place by a set screw 11. By this arrangement, the legs can be folded upwardly alongside of the standard so as to materially reduce the size of the device when not in use. On the upper end of the standard is supported a music rest or frame B of any approved construction preferably consisting of hingedly-connected links 12 which fold like lazy tongs back against the central vertical bar 13 so as to occupy but little space. The upper section 3 of the standard is formed with a head 14 provided with an apertured lug 15 to which is pivotally connected at 16 a stem 17 that fits in ears 18 on the rear of the bar 13. This stem can be clamped in any inclined position by a set screw 19. By this arrangement, the music rest or frame B can be tilted forwardly or backwardly at an inclination to suit the fancy of the musician.

The music stand is equipped with pedal-actuated leaf-turning means, and for this purpose a shaft C is arranged within the standard, the said shaft consisting of telescopic sections 20 which are of hexagonal or other non-circular cross section so that the sections will turn together, the shaft C being expanded and contracted simultaneously with the standard A. On the lower end of the bottom section of the shaft C is fixed a miter gear 21 which meshes with a miter gear 22. This miter gear 22 is oscillated in one direction by a pedal 23, and in the opposite direction by a pedal 24, the pedals being connected by vertical links 25 and 26 with the miter gear 22 at diametrically-opposite points 27. The pedals are carried on the forward ends of horizontal levers 28 fulcrumed at 29 on the rear supporting leg 4, as shown in Fig. 2. Connected with the upper extremity of the upper section 20 is a horizontal swinging arm or crank 30 for operating the leaf-turning device. This leaf-turning device consists of a rock shaft 31 mounted in bearings 32 on the member 13 of the frame B, as shown in Figs. 1 and 3, and on the lower end of this rock shaft is an arm 33 that has an arcuate depending finger 34 struck around the pivot

16 as a center, the finger being movable freely through the slot 35 in the crank 30. The swinging arm 33 carries a leaf-gripping device shown in detail in Figs. 7 and 8. This device consists of fixed jaws 36 fastened on the arm or bar 33 and disposed opposite these jaws are movable jaws 37 which are connected together by a connecting bar 38, the said bar 38 having apertured lugs 39 at its ends for receiving a shaft 40 which is supported in lugs 41 secured to the fixed jaws 36. On the shaft 40 is a torsional spring 42 which has one end bearing against a finger grip or lug 43, Fig. 8, on the bar 38 while the other end is fastened to the shaft 40, at 44, Fig. 7. Behind the finger lug 43 is a lug 45 carried by the arm 33, and by gripping these lugs between the thumb and forefinger, the jaws of the leaf-gripping device can be opened for receiving or releasing a leaf of the music. On the upper end of the rock shaft 31 is carried an overhanging arm 46 which is provided with a clip 47 to engage the top of the leaf to be turned. The arm 46 is pivotally connected with the rock shaft 31 at 48 and also the arm 33 is pivotally connected at 49 to the rock shaft 31 whereby the said arms can be folded closely to the collapsed music rest or frame. As shown in Fig. 4, the lower end of the center bar 13 is provided with stops 50 with which shoulders 51 on the lower angle bars 12^a of the frame B engage when the said frame is in open position.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the device which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the claims appended hereto.

Having thus described the invention, what I claim is:—

1. The combination of a standard, a music holder on the upper end thereof, a rotatable shaft in the standard, tripod legs pivoted to the lower ends of the standard, a gear on the lower end of the shaft, a second gear meshing with the first, vertically-disposed members connected with the gear at diametrically opposite points and extending downwardly from the standard, pedals connected with the lower ends of the members, a single pivot connecting the rear ends of the pedals to one of the said legs, means for pivotally connecting the legs with the standard to permit the legs to fold upwardly alongside the latter, said pedals and members being foldable with the legs, and bracing means between the legs and standard, and a leaf-turning element mounted on the upper end of the standard and operatively connected with the shaft.

2. In a music stand, the combination of a standard, supporting means therefor, a stem having adjustable connection with the standard and adapted to be secured thereto in the required adjusted position, a rotatable shaft mounted on the standard, pedal operating means for said rotatable shaft, a crank arm having connection with said rotatable shaft, a music rest mounted upon the stem and comprising a bar and arms pivoted thereto, a set of said arms having supporting members having their inner ends constituting shoulders, stops upon the bar to engage said shoulders and limit the movement of the arms when swung outward and downward, a rock shaft mounted upon said bar, upper and lower arms disposed at the ends of the rock shaft, pivots connecting the arms with the shaft, said pivots extending transversely to the shaft to permit the arms to fold substantially parallel therewith, each arm provided with a leaf gripping device, and a finger pendent from the lower arm and operating through the opening of the crank arm and formed on the arc of a circle concentric with the pivot support of the aforementioned stem.

3. In a music stand, a tubular support, a beveled gear disposed against the lower side of said support, a second beveled gear supported in engagement with the first beveled gear, depending links pivoted at their upper ends to the second beveled gear and adapted to oscillate the same in opposite directions, pedal members connected with said links for independently operating the same, a shaft connected with the first beveled gear and extending through the support, a music rest swingingly mounted on the upper end of the tubular support, a turning shaft journaled on said music rest, an arm pivoted at one end to the shaft, an arcuate finger depending from said arm, sheet gripping means carried by the turning shaft, and an arm mounted on the upper end of the first shaft and having a slotted end receiving the arcuate finger.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM N. ANDERSON.

Witnesses:
J. V. ECKMAN,
A. M. HALLAND.