

No. 652,021.

Patented June 19, 1900.

J. ELLENBECKER.  
REVOLVING CHAIR OR STOOL.

(Application filed Mar. 29, 1900.)

(No Model.)

Fig. 1.

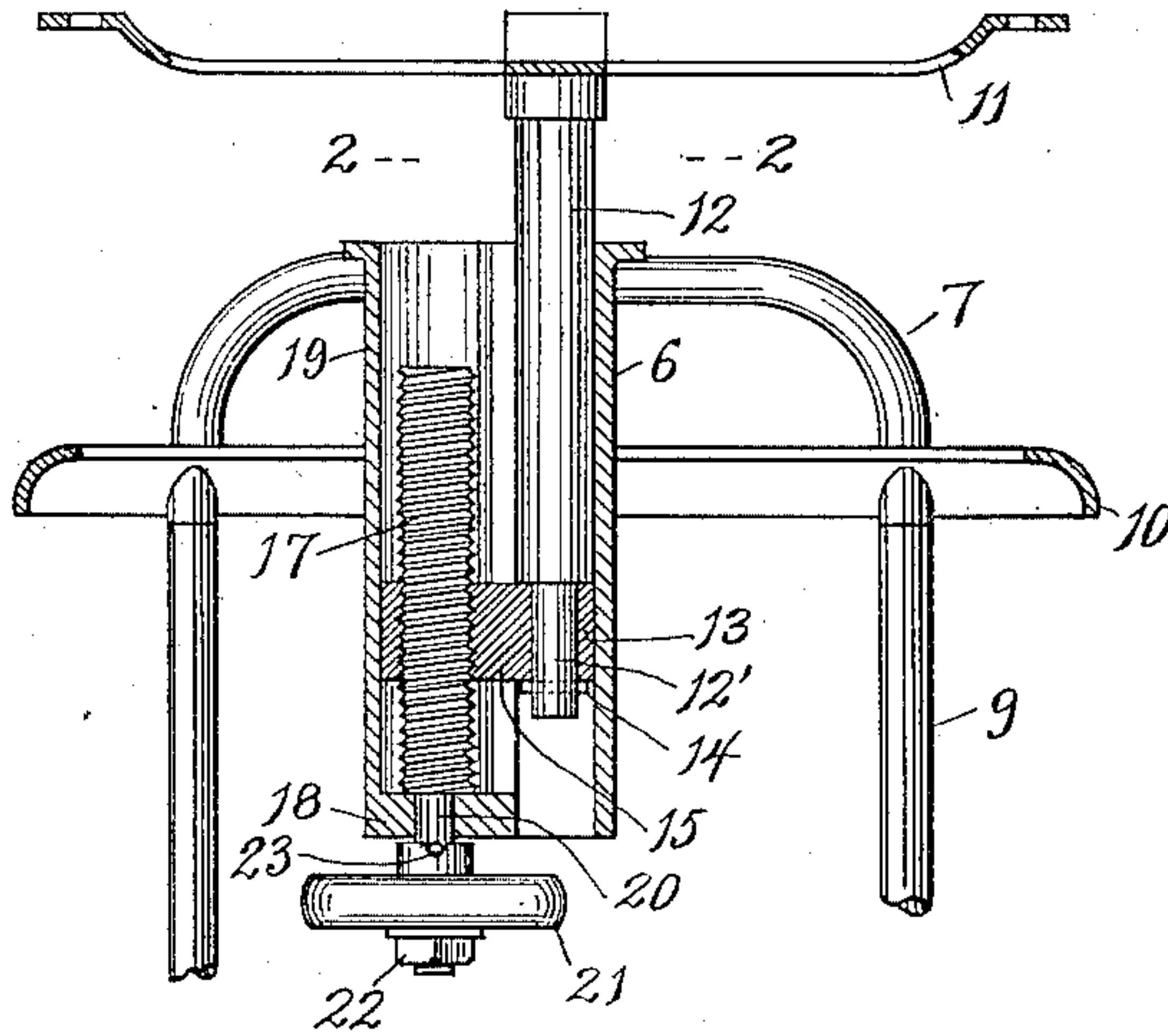


Fig. 2.

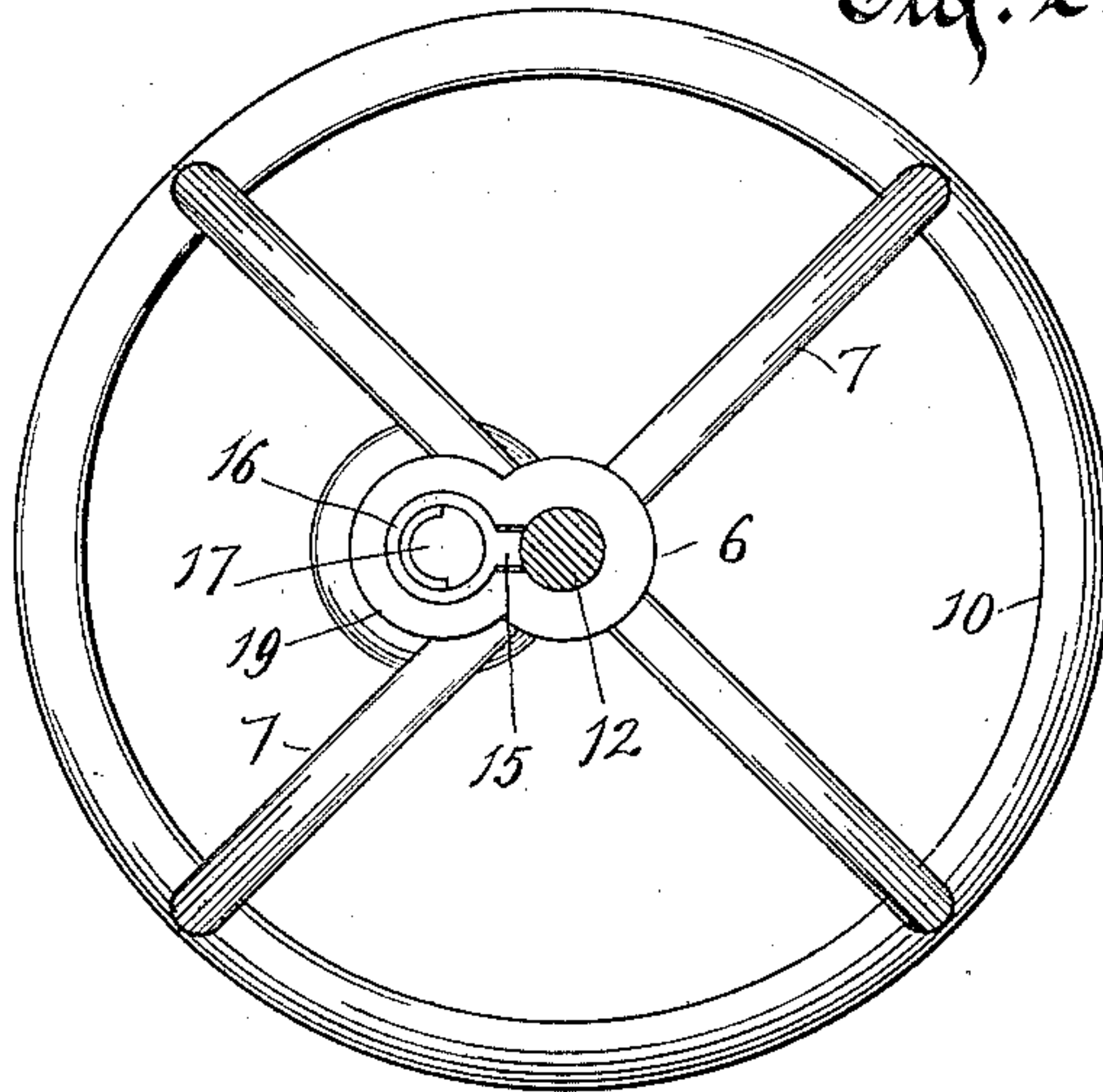


Fig. 3.

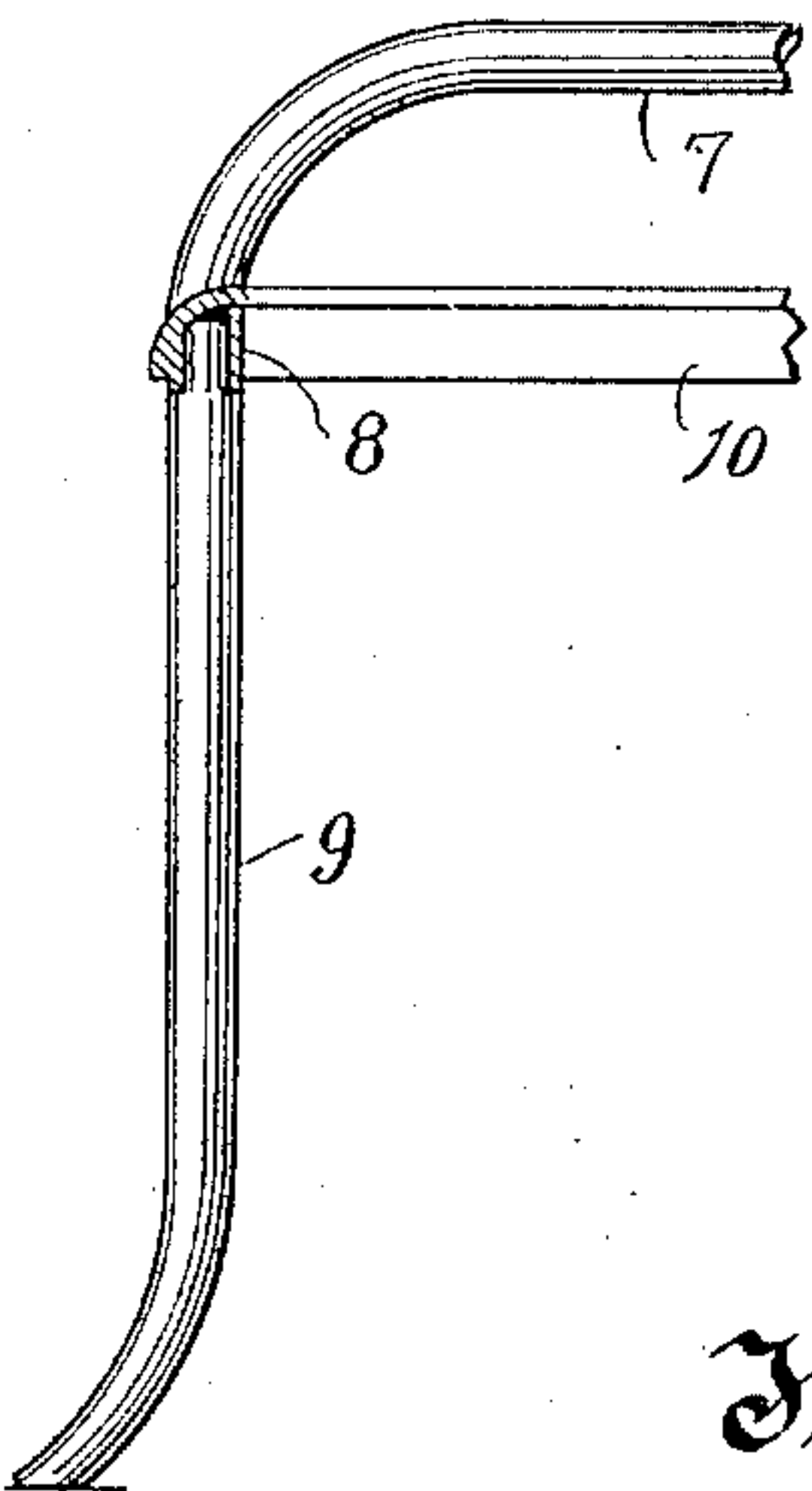


Fig. 4.

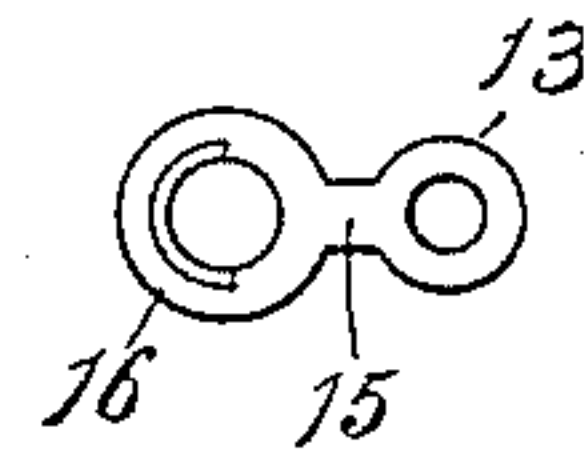
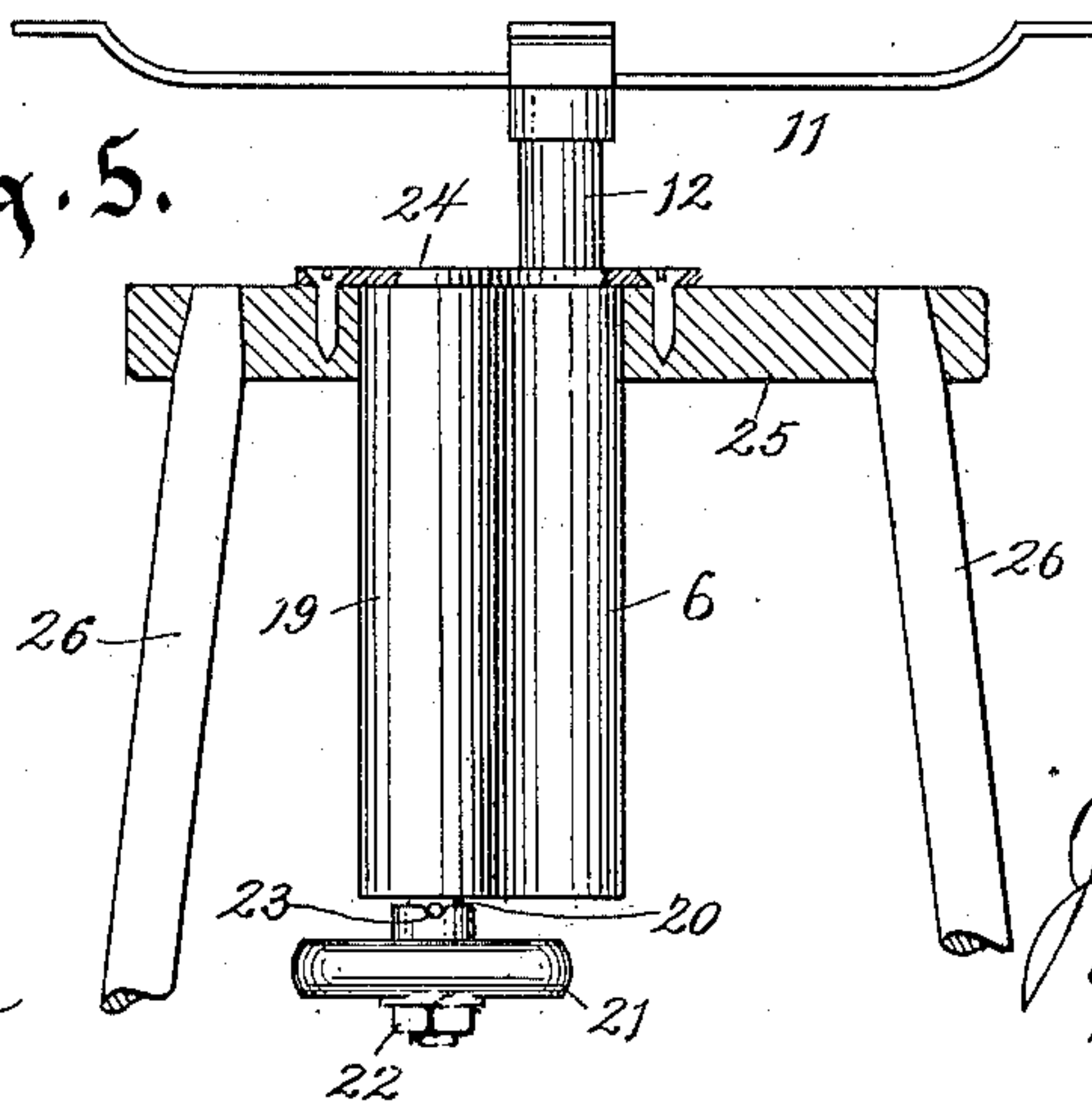


Fig. 5.



Witnesses.

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# UNITED STATES PATENT OFFICE.

JOHN ELLENBECKER, OF PORT WASHINGTON, WISCONSIN.

## REVOLVING CHAIR OR STOOL.

SPECIFICATION forming part of Letters Patent No. 652,021, dated June 19, 1900.

Application filed March 29, 1900. Serial No. 10,605. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN ELLENBECKER, of Port Washington, in the county of Ozaukee and State of Wisconsin, have invented a new and useful Improvement in Revolving Chairs or Stools, of which the following is a description, reference being had to the accompanying drawings, which are a part of this specification.

My invention relates to an improved construction adapted for use in a stool or chair, the invention involving means for raising and lowering the revolving seat of the stool or chair.

The invention consists of the devices and their combinations, as herein described and claimed, or the equivalents thereof.

In the drawings, Figure 1 is a vertical cross-section of such portions of a stool as embody my invention, parts being shown in elevation for convenience of illustration. Fig. 2 is a section on line 2 2 of Fig. 1 of the complete parts shown in section in Fig. 1 looking downwardly. Fig. 3 is a detail of the means for securing a leg of the stool to the hub. Fig. 4 is a detail of the spindle-supporting nut-block employed in the improved construction. Fig. 5 illustrates a modified form of construction.

In the drawings, 6 is a vertically-disposed cored or tubular hub, preferably made of cast metal. This hub when employed in a stool is for the purpose of mounting it on legs advantageously provided with integral radiating arms 6 6, which at their outer extremities are severally provided with a socket 8, into which a leg 9 may be inserted. A circular stay or brace 10 may also be formed integrally with the arms 7 7 to stiffen the construction, this brace 10 being preferably so formed and disposed as to furnish a foot-rest for the person using the stool.

A chair-seat iron or spider 11 is provided with a downwardly-extending leg or spindle 12, the lower portion of which spindle fits revolubly and movable vertically in the bore of the hub 6. The spindle 12 rests on a block 13, fitted movably in the bore of the hub 6, the spindle 12 being advantageously provided with a small axial or contracted continuation 12', that extends through the block 13 in an ap-

erture therefor and may be held thereto by a pin 14. The spindle 12 is revoluble freely in the block 13. The hub 6 is slotted at one side substantially from the top to the bottom, and the block 13 is provided with a laterally-projecting wing 15, that extends freely through the slot and is enlarged exteriorly of the hub, forming an interiorly-screw-threaded nut 16. This block 13 and nut 16 I denominate the "nut-block." A screw 17, disposed in upright position alongside the hub 6 and opposite the slot therein, turns through the nut 16, and the screw rests at its lower end on a support 18. This support 18 may be a ledge projecting rigidly from the hub 6, or the ledge may be, as shown in the drawings, the rigid bottom of a tubular barrel or case 19, extending upwardly from the ledge or bottom alongside of the hub 6 and secured thereto and made to encase the screw 17 and the nut 16. The slot in the hub 6 opens into the barrel 19. This case or barrel 19 is not a necessary part of the construction, or if employed at all need not extend to the top of the hub, though I prefer to have it extend to the top of the hub, as shown in the drawings. The screw 17 is provided with an axial smaller stem 20, projecting therefrom through the screw-support 18, and this stem is provided with a hand-wheel 21 for turning the screw. The hand-wheel is secured detachably on the stem 20 by a nut 22 and may be held to rotation therewith conveniently by a pin 23 through the hub of the hand-wheel and through the stem.

It will be understood that by means of this improved construction a chair-seat fixed on the chair-seat iron 11 can be readily raised and lowered on the hub 6 by rotating the screw 17 by means of the hand-wheel 21, thereby elevating or lowering the nut-block and correspondingly raising and lowering the chair-seat, while the chair-seat is at all times freely revoluble by means of the spindle 12, resting on the screw-supported nut-block.

In the modified form of construction shown in Fig. 5 the hub 6, with the thereto-attached barrel 19, is provided with a top plate 24, adapted to rest on a head 25, provided with legs 26. This head or bench 25, provided with the legs 26, forms an inexpensive means



of supporting the hub 6 and its load. The other parts of the construction are the same as shown in Fig. 1.

What I claim as my invention is—

5 1. In a revolving stool or chair, the combination of a vertically-bored hub provided with a vertically-elongated lateral slot, a block movable vertically in the bore of the hub, the block being provided with a lateral extension including a screw-threaded nut, a screw  
10 resting on a fixed support and turning through said nut, a seat-spindle supported revolubly on the block in the bore of the hub, and means for turning the screw.

15 2. In combination, a vertically-disposed tubular chair or stool hub provided with an elongated vertically-extending slot, a block movable freely vertically in the bore of the hub and provided with a nut exteriorly of the tubular hub, a vertically-disposed screw resting  
20 revolubly on a support and turning through said nut, a screw-support fixed on the hub, an axial stem on the screw extending through the screw-support, means on the screw-stem for rotating the screw, and a seat-  
25 spindle supported and revoluble on the block in the bore of the hub.

3. In combination, a vertically-disposed tubular chair or stool hub provided with an

elongated vertically-extending slot, a block 30 movable freely vertically in the bore of the hub and projecting laterally through the slot and having an interiorly-screw-threaded nut on the projection outside the slot, an auxiliary tube or barrel alongside the hub in 35 which the nut is located and is movable vertically, a screw in the barrel resting on the bottom thereof, means for rotating the screw, a seat-spindle resting in the bore of the hub on the movable block therein, and means 40 holding the spindle in place on the block.

4. In a revolving chair or stool, the combination with a chair or stool iron having a spindle, and a hub in which the spindle is supported revolubly, of arms branching later- 45 ally from the hub and turning downwardly and provided with leg-sockets in the extremities of the arms to receive legs therein, and a circular stay or brace formed integrally with all the arms and the hub, and uniting 50 and bracing the arms at a distance below the plane of their radiation.

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

JOHN ELLENBECKER.

Witnesses:

WM. AHLHAUSER,  
MICHAEL EVEN.