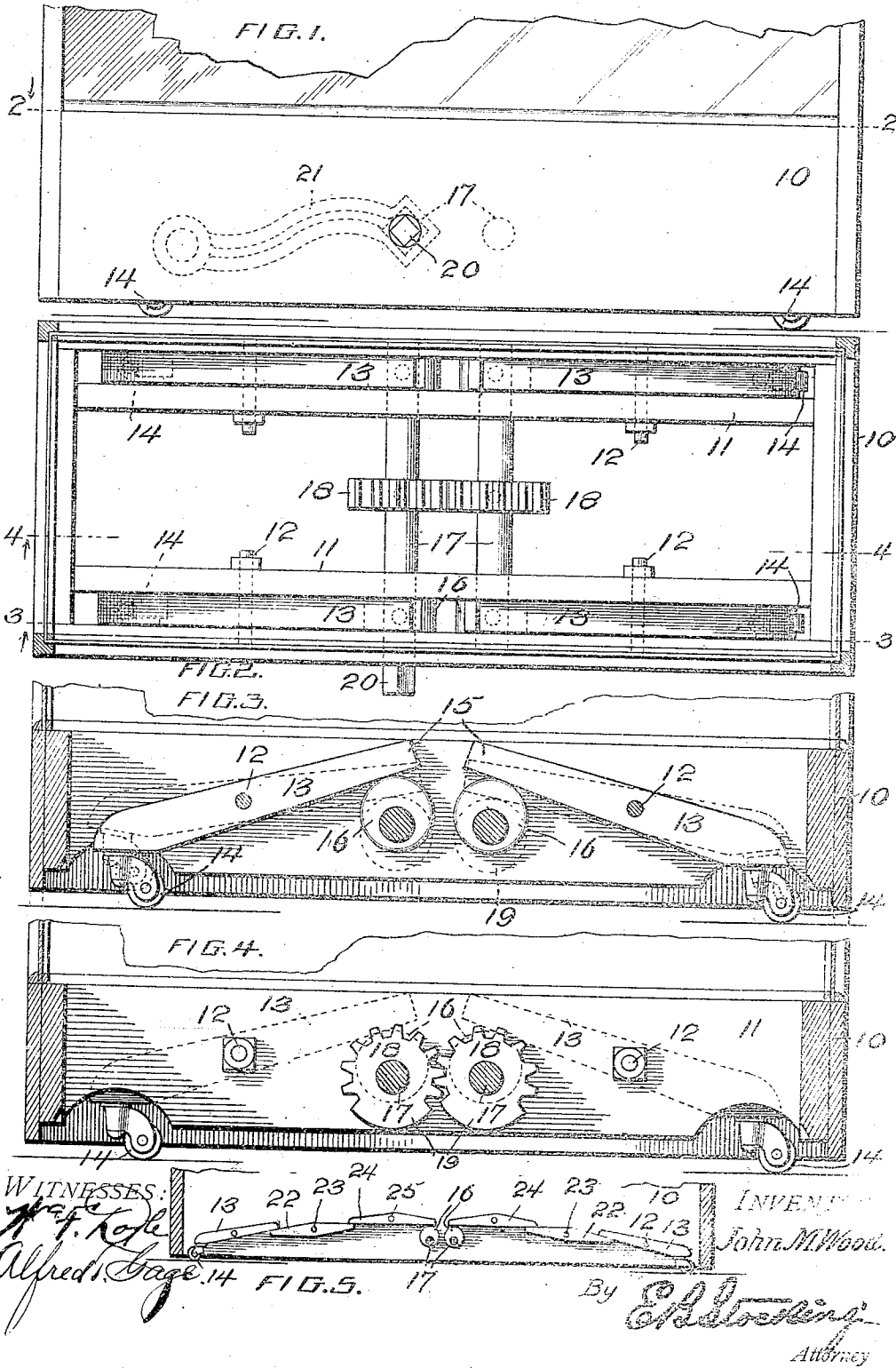


J. M. WOOD.
ADJUSTABLE CASTER.
APPLICATION FILED JULY 15, 1909

935,289.

Patented Sept. 28, 1909.



UNITED STATES PATENT OFFICE.

JOHN M. WOOD, OF KENTON, OHIO.

ADJUSTABLE CASTER.

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Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed July 15, 1909. Serial No. 507,858.

To all whom it may concern:

Be it known that I, JOHN M. WOOD, citizen of the United States, residing at Kenton, county of Hardin, State of Ohio, have invented certain new and useful Improvements in Adjustable Casters, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to adjustable casters and particularly to a construction where the caster is movable toward and from the base of an article of furniture to be supported thereby.

The invention has for an object to provide a novel and improved construction comprising a frame having levers pivoted therein provided with casters and independent cams beneath the opposite ends of said levers, and the shafts of said cams having meshing gears secured thereto to effect a simultaneous movement of the levers.

Other and further objects and advantages of the invention will be hereinafter set forth and the novel features, thereof defined by the appended claims.

In the drawing:—Figure 1 shows an elevation of a show case having the invention applied thereto; Fig. 2 is a horizontal section on line 2—2, Fig. 1; Fig. 3 is a vertical section on line 3—3, Fig. 2; Fig. 4 is a similar section on line 4—4, Fig. 2; and Fig. 5 is a sectional view illustrating a modified form of the invention.

Like numerals of reference refer to like parts in the several figures of the drawing.

The numeral 10 designates a frame which may comprise the base of a show case or any other article of furniture to which the invention is to be applied. Within this frame a supporting bar 11 is provided adapted to receive pivots 12 extending from the frame therethrough. Upon these pivots, levers 13 are mounted, each being provided at one end with the roller or caster 14 adapted to support the article above the floor or surface upon which it would otherwise rest. The inner ends of these levers 13 are disposed toward each other and beneath them lifting cams 16 are located, each cam being independent of the other and mounted upon a separate shaft 17. The shafts 17 extend parallel to each other and are provided with segmental gears 18 secured thereto and meshing with each other to effect a simultaneous operation of the levers. These gears are each formed with a portion 19 which limits

the travel thereof in either direction and retains the levers in either their raised or lowered positions. One of the shafts 17 is extended through the base and provided with a portion 20 adapted to receive an operating handle 21 as shown by dotted lines in Fig. 1. The levers 13 may be duplicated at opposite ends of shafts 17 as shown in Fig. 2 so as to provide rollers or casters 14 at each corner of the frame of the show case.

In the modified form of the invention shown in Fig. 5 a series of levers are used when it is necessary to limit the extent of the travel of the lever particularly in connection with an elongated base in which the application of a single lever at each end would not be expedient. In this form the inner ends of the levers 13 bear upon a transmitting lever 22 pivotally mounted at 23 which transmitting lever in turn bears upon lever 24 pivotally mounted at 25 and bearing upon the cams 16 upon the parallel shafts 17.

In the operation of the invention it will be seen that the movement of one of the shafts produces an equal, simultaneous movement of the opposite shaft so as to either raise the inner end of the levers to project the casters or rollers to permit movement of the article of furniture to which they are attached or to allow the weight of this article to force the inner ends of the levers downward as the cams are retracted therefrom as shown by dotted lines in Fig. 3 so that the base of the article will rest upon the floor and cannot then be easily moved or displaced. This construction is particularly adapted for furniture of considerable weight as the use of independent cams geared together provides a construction by which the weight can be more readily distributed with a minimum expenditure of power and an equal travel of each of the levers obtained, thus preventing an unequal elevation of either end of the article to which they are applied as would occur with the use of opposite levers disposed above a single cam. The segmental gears upon the shafts of these cams not only effect an easy, continuous and equal travel of the levers, but also limit the extent of such travel in both directions by the solid portions carried upon the gears. The invention therefore presents a simple, efficient and economically constructed form of adjustable caster particularly adapted for use for show cases, shelving and other heavy articles of furniture which re-

quire considerable power in order to be raised above the floor upon which they rest by the downward movement of the casters carried by the actuating levers therefor.

5 Having described my invention and set forth its merits, what I claim and desire to secure by Letters Patent is:—

1. A base frame, levers pivoted therein and provided at one end with casters, independent cams connected to operate beneath 10 the opposite ends of said levers, and meshing gears upon the shafts of said cams to effect a simultaneous movement thereof.

2. A base frame, levers pivoted therein 15 and provided at one end with casters, independent cams connected to operate beneath the opposite ends of said levers, and segmental gears meshing with each other and having a portion to limit the travel thereof.

20 3. In an adjustable caster, a frame, oppositely disposed levers pivoted therein, bear-

ing rollers provided at one end of said levers, parallel shafts mounted in the frame and provided with independent cams disposed to engage one end of each of said levers, and means for simultaneously operating 25 said cams:

4. In an adjustable caster, a frame, oppositely disposed levers pivoted therein, bearing rollers provided at one end of said levers, parallel shafts mounted in the frame 30 and provided with cams disposed beneath one end of said levers, meshing gears carried by the shafts of said cams, and an operating handle disposed upon the extended shaft of 35 one of said gears.

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

JOHN M. WOOD

Witnesses:

ADAM M. RICE,

HENRY SPELMAN.