

No. 781,551.

PATENTED JAN. 31, 1905.

M. A. QUILLIN.
DOOR CHECK.

APPLICATION FILED JAN. 30, 1904.

Fig. 1.

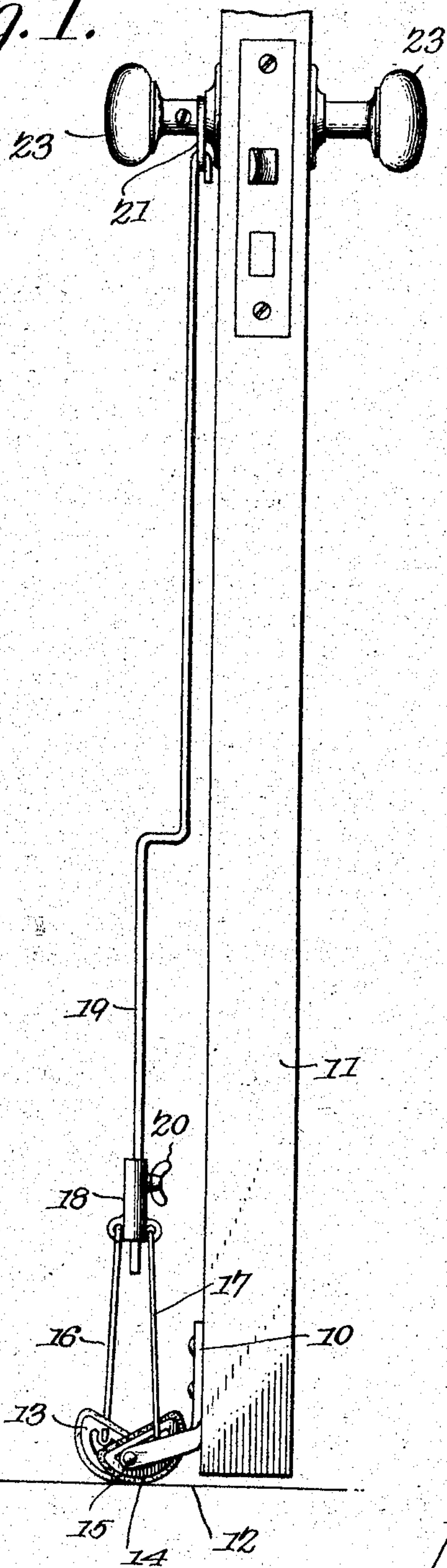
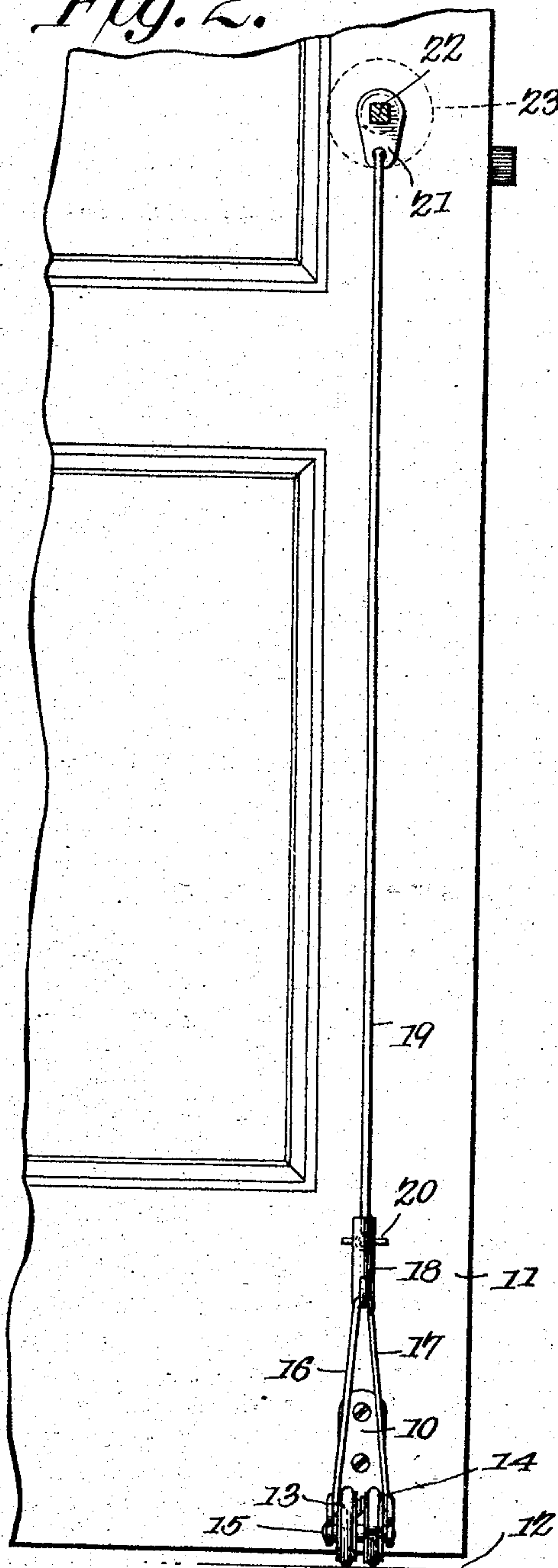


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

MARK A. QUILLIN, OF JASPER, MISSOURI.

DOOR-CHECK.

SPECIFICATION forming part of Letters Patent No. 781,551, dated January 31, 1905.

Application filed January 30, 1904. Serial No. 191,353.

To all whom it may concern:

Be it known that I, MARK A. QUILLIN, a citizen of the United States, residing at Jasper, in the county of Jasper and State of Missouri, have invented a new and useful Door-Check, of which the following is a specification.

This invention relates to devices for application to swinging doors for checking the movement at any desired point, and has for its object to produce a simply-constructed device of this character operative by the rotation of the knob-spindle on the door.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of the embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle or sacrificing any of its advantages, and the right is therefore reserved of making all the changes and modifications which fairly fall within the scope of the invention and the claims made therefor.

In the drawings thus employed, Figure 1 is an edge view of a portion of a door and the adjacent floor with the improvement applied, and Fig. 2 is a front elevation of the same.

In the improved device herein disclosed is a bracket 10 for attachment to the door 11 near the floor 12 and preferably upon the inner face when used upon outside doors and upon either face preferred when employed upon inside doors. The free end of the bracket is formed with spaced ears, between which two cam members 13 14 are pivoted eccentrically upon one common pivot-pin 15, the cams being reversely disposed. Attached pivotally to the cams are rods 16 17, extending upwardly and movably connected to a sleeve 18, the latter having another rod 19 slidable therein and adjustable by a set-screw 20. The upper end

of the rod 19 is connected to the free end of a crank-arm 21, mounted upon the spindle 22 of the knobs 23 of the lock or latch of the door, so as to partake of the oscillatory motion of the same. The sleeve 18 will be so adjusted upon the rod 19 that when the latch-bolt is in its projected position the cams 13 14 will be in their depressed positions, and then when the knob-spindle is rotated to withdraw the latch-bolt it is obvious the corresponding movement of the crank-arm 21 will elevate the cams and release them from contact with the floor. It will also be obvious that when the crank-arm is turned into its downward position a strong "toggle-lever" action will result, which will simultaneously depress the cams, which being reversely disposed will effectually prevent any movement of the door in either direction while they are in their depressed position. The cams will preferably be provided with shoes of rubber or similar material to increase their "grip" upon the floor and also to prevent abrasion of carpets or floors.

It will thus be seen that a very simply-constructed and effective device is produced operative entirely by the rotation of the knob-spindles and by which means the door will be instantly checked in its movement in both directions when the knobs are released.

All the parts except the friction-shoes will be of metal and may be plated or otherwise ornamented to present a pleasing appearance.

The device may be adapted to any size or form of swinging door.

Having thus described the invention, what I claim is—

1. The combination with a door having a knob-controlled latch, of a pair of reversely-disposed cams pivoted near the lower edge of the door for frictional engagement with the floor, and means controlled by the door-knob for simultaneously elevating the cams out of engagement with the floor when the knob is rotated to release the latch and also to force the cams downwardly into engagement with the floor upon the return movement of the knob.

2. The combination with a door having a knob-controlled latch, of a pair of reversely-

disposed cams pivoted to the door near the lower edge thereof for engagement with the floor, a crank-arm carried by the door-knob spindle, and a rod connected to the crank-arm 5 and also to the cams, whereby the latter may be simultaneously elevated and also depressed by rotative movements of the door-knob.

3. A door-check comprising a bracket for engagement with the door, a pair of reversely- 10 disposed floor-engaging cams pivotally supported upon the bracket, a crank-arm provided with means for connection with the door-knob spindle, and a rod connected to the crank-arm and also to the floor-engaging cams.

15 4. A door-check comprising a bracket for connection with the door, a pair of reversely-disposed cams pivoted upon the bracket, a crank-arm provided with means for connection with the door-knob spindle, a connecting-rod 20 pivotally connected to the crank-arm, and links pivotally connected to the respective cams and also pivotally connected to the rod.

5. A door-check comprising a bracket for 25 connection with the door, a pair of reversely-disposed floor-engaging cams pivotally carried

by the bracket, a crank-arm provided with means for connection with the door-knob spindle, a connecting-rod pivotally connected to the crank-arm, a sleeve slidably adjustable 30 upon the rod, a set-screw carried by the sleeve to rigidly connect the latter to the rod, and links pivotally connected to the cams and also to the slidable sleeve.

6. In a door-check, a bracket for attachment 35 to a door, two reversely-disposed cams movably connected to said bracket, an arm connected to the knob-spindle of the door and rotative therewith, a rod connected to said arm and having a sleeve adjustable longitudinally thereon, and rods between said sleeve and 40 cams, whereby the rotation of said knob-spindle will simultaneously actuate said cams.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

MARK A. QUILLIN.

Witnesses:

J. M. BOOTS,
M. W. BUSBY.