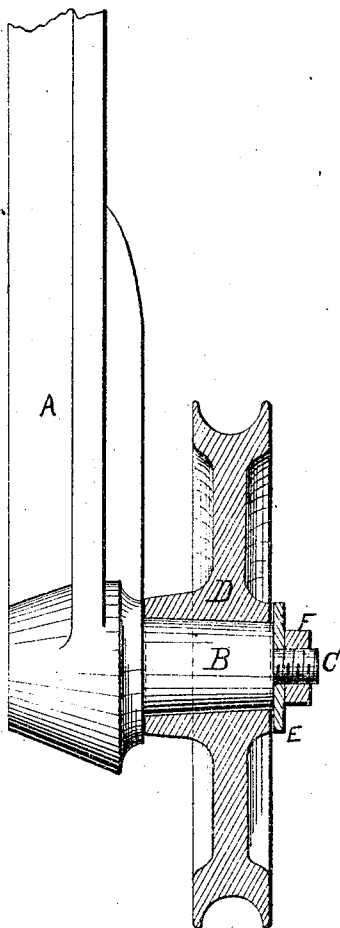


T. Kent & J.S. Barker.

117894

Door Sanger.

PATENTED, AUG 8 1871



Witness:

Victor Hagmann.
Wm. S. Allenworth

Inventors:

T. Kent & J.S. Barker.
By Farnell, Allenworth & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

TRUMBLE KENT AND JAMES S. BARKER, OF WAUKEGAN, ILLINOIS.

IMPROVEMENT IN DOOR-HANGERS.

Specification forming part of Letters Patent No. 117,894, dated August 8, 1871.

To all whom it may concern:

Be it known that we, TRUMBLE KENT and JAMES S. BARKER, both of Waukegan, in the county of Lake and State of Illinois, have invented a new and Improved Door-Hanger; and we do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, in which the figure is an elevation of the hanger, with the pulley shown in section.

Our invention has for its object to improve the construction of door-hangers; and to this end it consists in casting the arm of the hanger and the pintle for the pulley in one piece, and in drilling the eye of the pulley and the exterior of the pintle to prevent the wearing of the same by friction.

In the construction of door-hangers it has heretofore been customary to cast the arm around a wrought-iron pintle, and to rivet the end of the latter down upon the face of the pulley. This construction, however, is objectionable, inasmuch as the pintle if riveted down tightly, prevents the free play of the pulley; and if not riveted snugly upon the pulley, the latter is permitted too much lateral play. To overcome these objections, we cast a short wrought-iron pin in the end of the pintle, whereby a shoulder is formed upon the end of the latter, against which a washer is held without bearing against the face of the pulley.

In the accompanying drawing, A is the arm, and B the pintle of the hanger, cast in one piece

with a small wrought-iron pin, C, in the end of the pintle. D is the pulley, grooved upon its periphery in the usual manner, and formed with a tapering eye to correspond with the taper given to the pintle. The eye of the pulley and the exterior of the pintle are both chilled to form hardened surfaces for the purpose of preventing wear by friction. When the pulley has been applied to the pintle a washer, E, is placed over the pin C, bearing against the end of the pintle, and is held in place by the nut F, or by riveting the end of the pin down upon said washer. By this construction the washer does not come in contact with the face of the pulley, and the latter is therefore permitted to rotate freely upon the pintle without friction upon its face, and without being bound or cramped laterally.

By casting the arm and pintle in one piece, instead of employing a wrought-iron pintle, the former is made of such size that it cannot be bent or broken under the weight of a heavy door.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

A door-hanger, consisting of the arm A and pintle B cast in one piece, and the pulley D thereon, with wrought-iron pin C in the end of said pintle, provided with washer E and nut F, all constructed and arranged as specified.

TRUMBLE KENT.
JAMES S. BARKER.

Witnesses:

E. A. ELLSWORTH,
N. K. ELLSWORTH.