

(No Model.)

P. H. MURPHY.
DOOR HANGER.

No. 409,999.

Patented Aug. 27, 1889.

Fig. I,

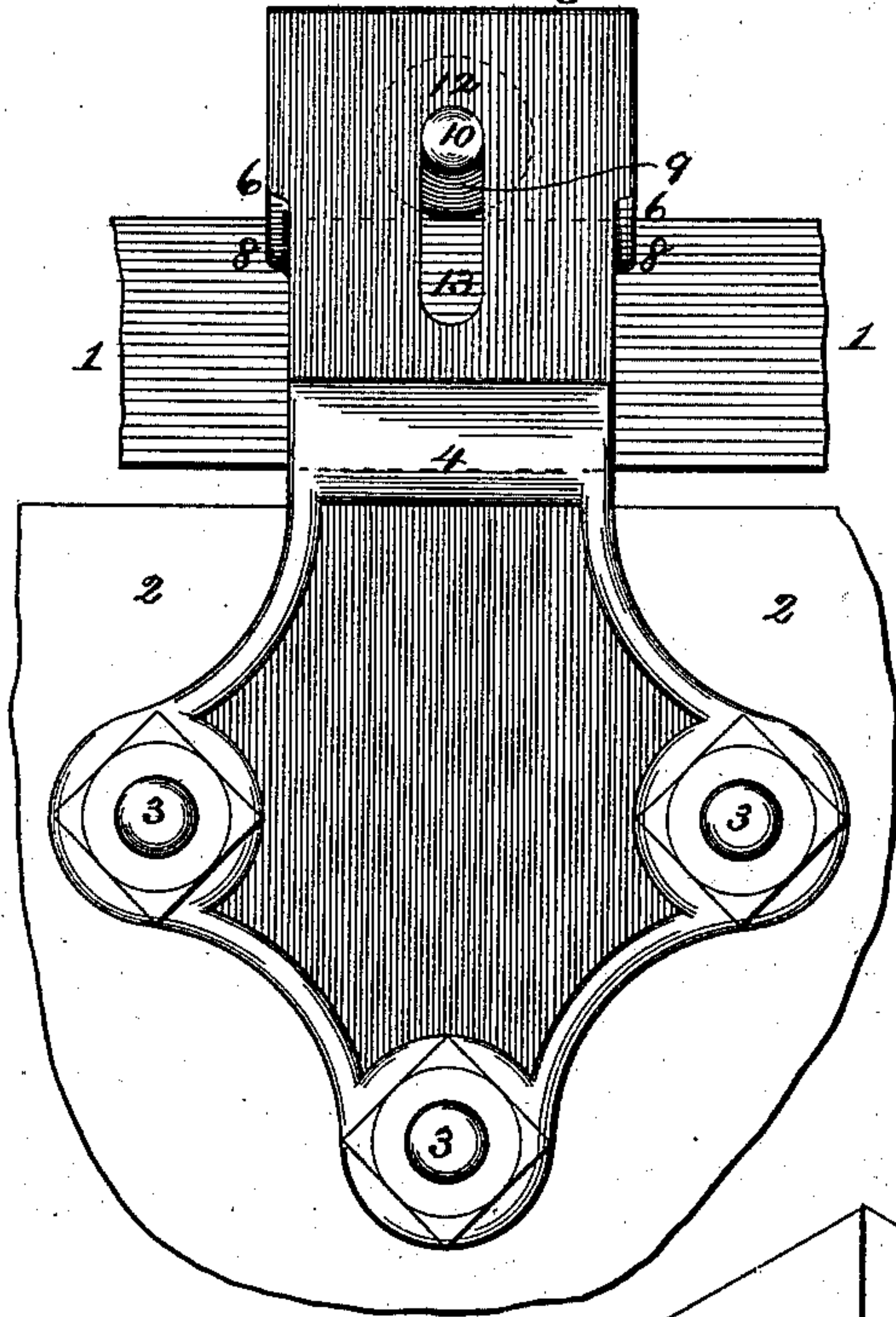


Fig. II,

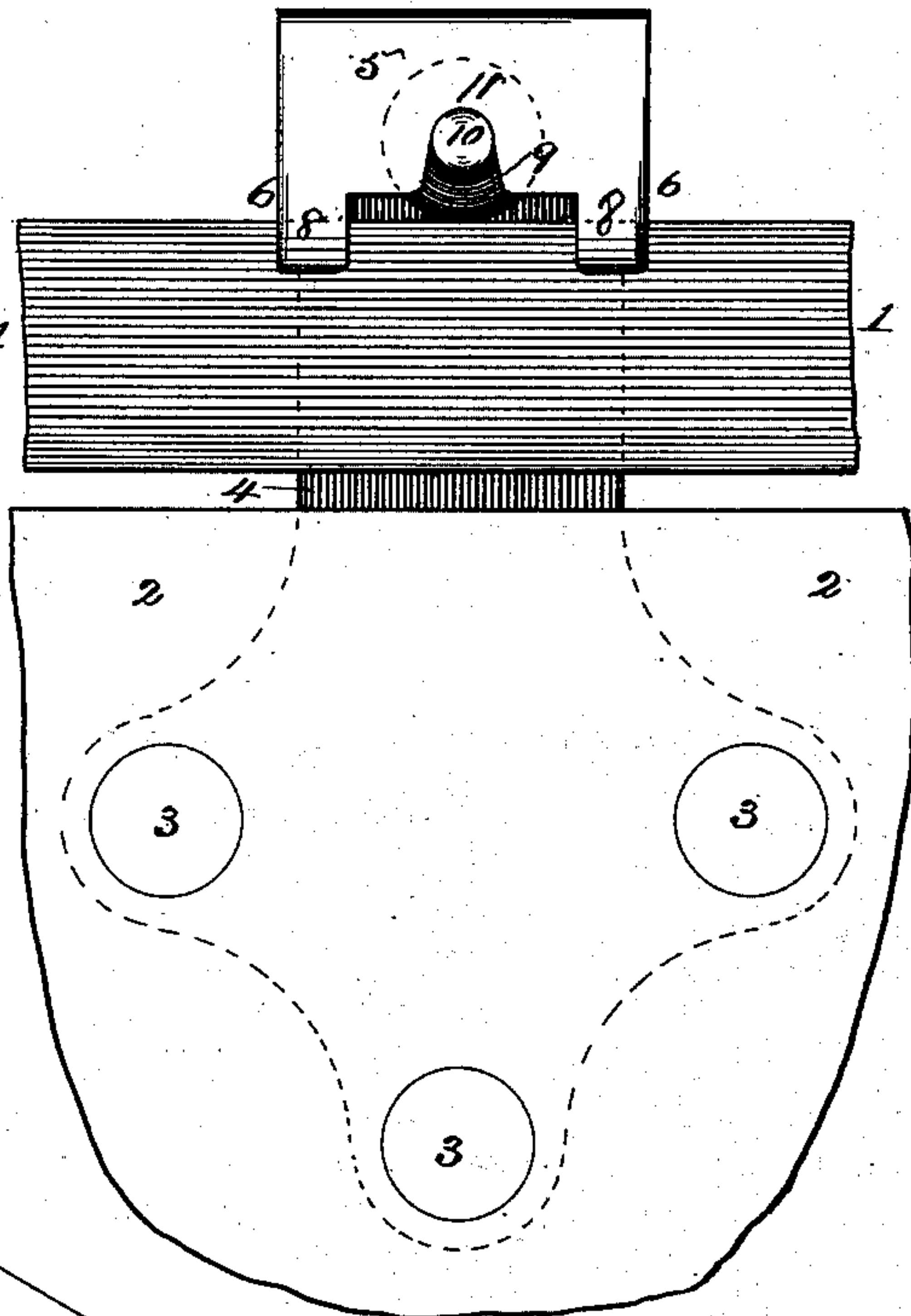


Fig. III,

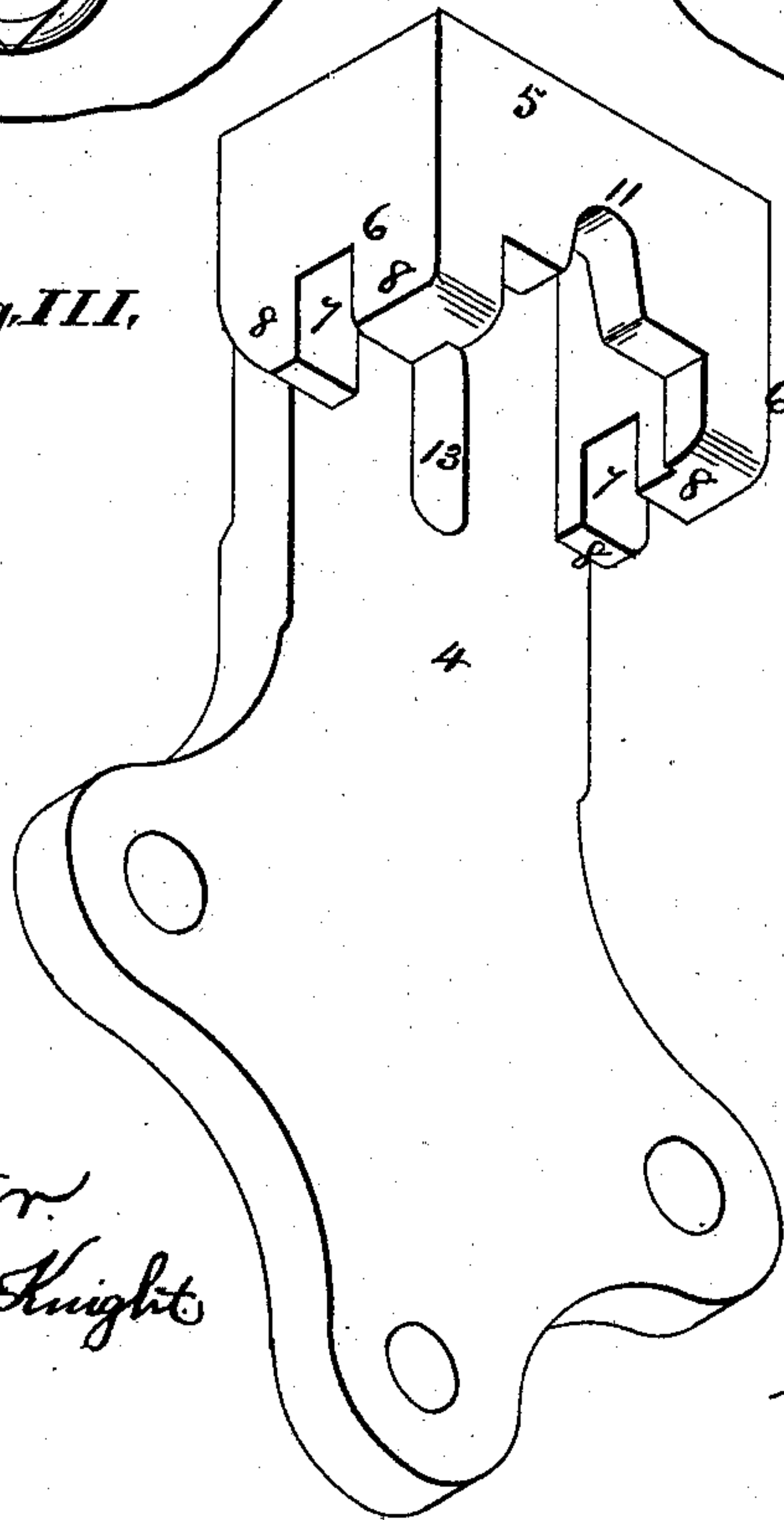
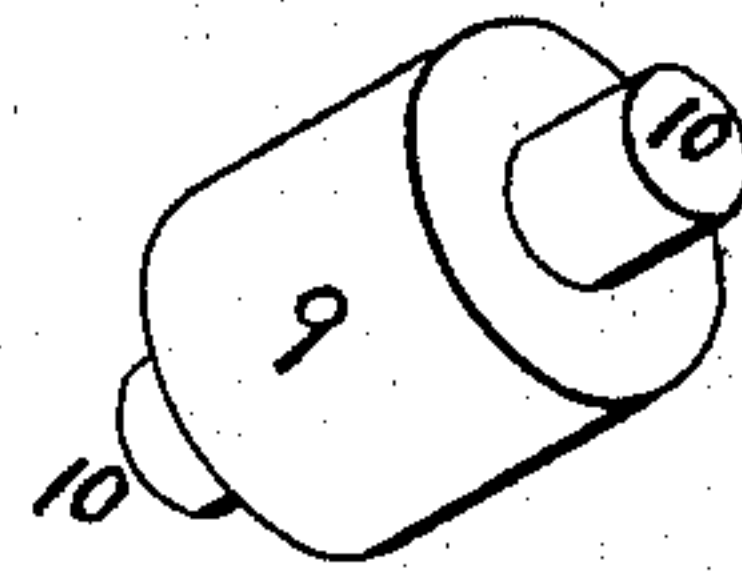


Fig. IV,



Attest:
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UNITED STATES PATENT OFFICE.

PETER H. MURPHY, OF EAST ST. LOUIS, ILLINOIS.

DOOR-HANGER.

SPECIFICATION forming part of Letters Patent No. 409,299, dated August 27, 1889.

Application filed May 22, 1889. Serial No. 311,662. (No model.)

To all whom it may concern:

Be it known that I, PETER H. MURPHY, of the city of East St. Louis, county of St. Clair, in the State of Illinois, have invented a certain new and useful Improvement in Roller-Hangers for Doors, &c., of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

10 This hanger consists of two pieces—the bracket and the roller—each of which may be cast in a finished condition. The roller has a simple cylindrical barrel with gudgeons. The bracket has guides, dispensing with the
15 usual flanges on the rollers.

Figure I is an outside front elevation of the hanger. Fig. II is a rear elevation. Fig. III is a perspective view of the hanger-bracket. Fig. IV is a perspective view of the roller.

20 1 shows part of a hanger-rail, and 2 shows part of a door. At 3 are bolts connecting the bracket to the door. The bracket 4 has depending projections 6 from its head 5, which have open slots 7, into which the upper part
25 of the hanger-rail 1 enters. The rail does not fill the slots 7, so that there is ordinarily little or no friction between the rail and the parts 8 at the sides of the slots; but such parts
30 prevent any displacement of the hangers upon the rail and obviate the necessity of

flanges on the roller 9, which has a simple cylindrical body and gudgeons 10. The gudgeons fit in bearings 11 and 12. The bearing 11 is open at bottom, and the bearing 12 is at the upper end of a vertical slot 13, so that the
35 gudgeons may be easily inserted in their bearings or removed therefrom when the hanger is not upon the rail 1.

I have found that in the use of grooved (or flanged) rollers the flanges are liable to climb
40 upon the rail 1 when brought in hard contact with the rail. The improved hanger is intended to obviate this objection. It will be seen that there will be no tendency in the parts 7 to climb the rail, however hard they
45 may press against the sides of the rail.

I claim as my invention—

In a door-hanger of two parts, the combination of a bracket constituting one part having a slotted head with projections on each
50 side of the slot, bearings in the bracket on each side of said slot, one of which is open at the bottom, and a cylindrical roller having gudgeons adapted to work in said bearings and constituting the other part, substantially
55 as set forth.

PETER H. MURPHY.

In presence of—

SAML. KNIGHT,
THOMAS KNIGHT.