

C. H. Robison,

Hinge.

N^o 5,608.

Patented May 30, 1848.

Fig. 3

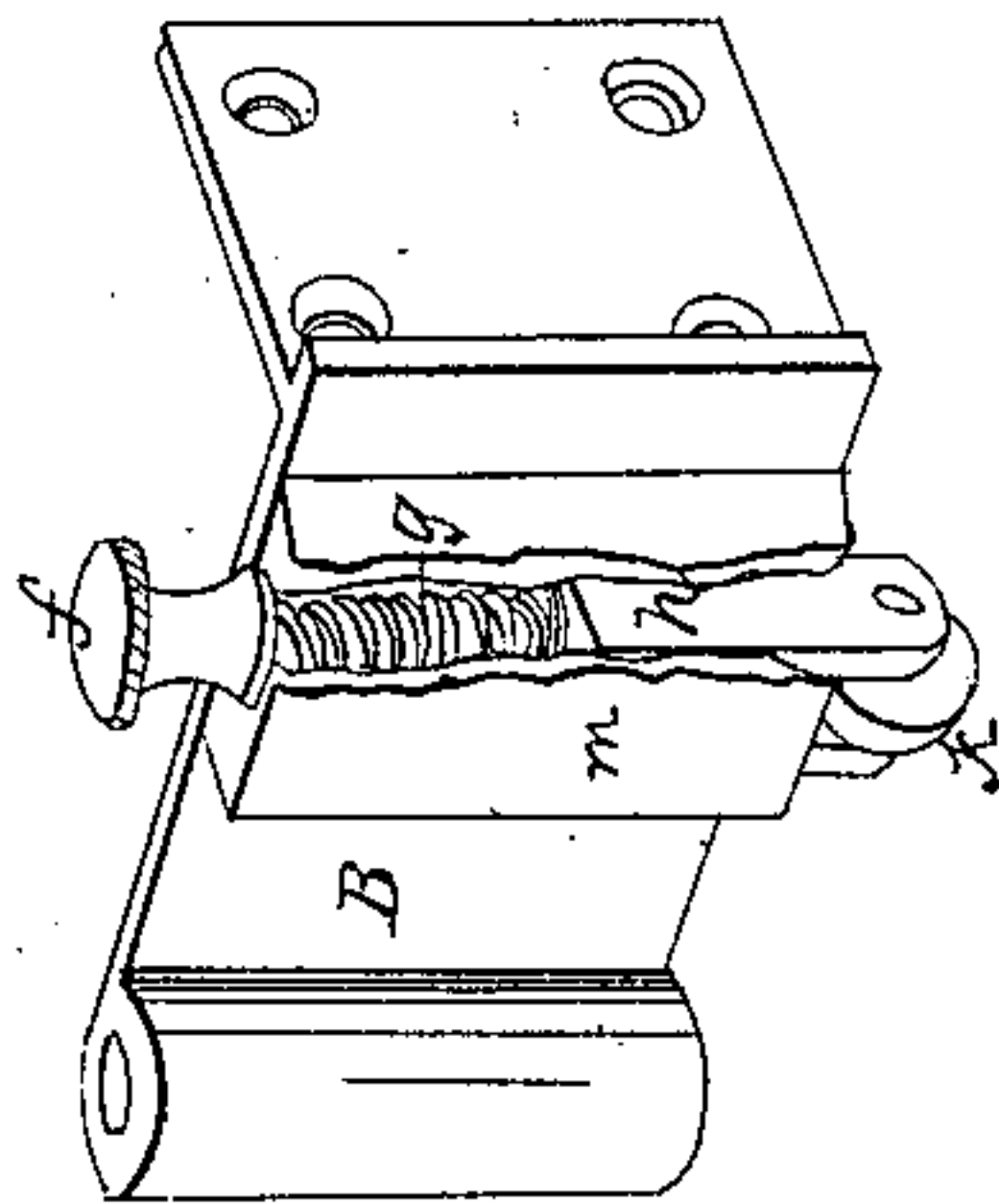


Fig. 2

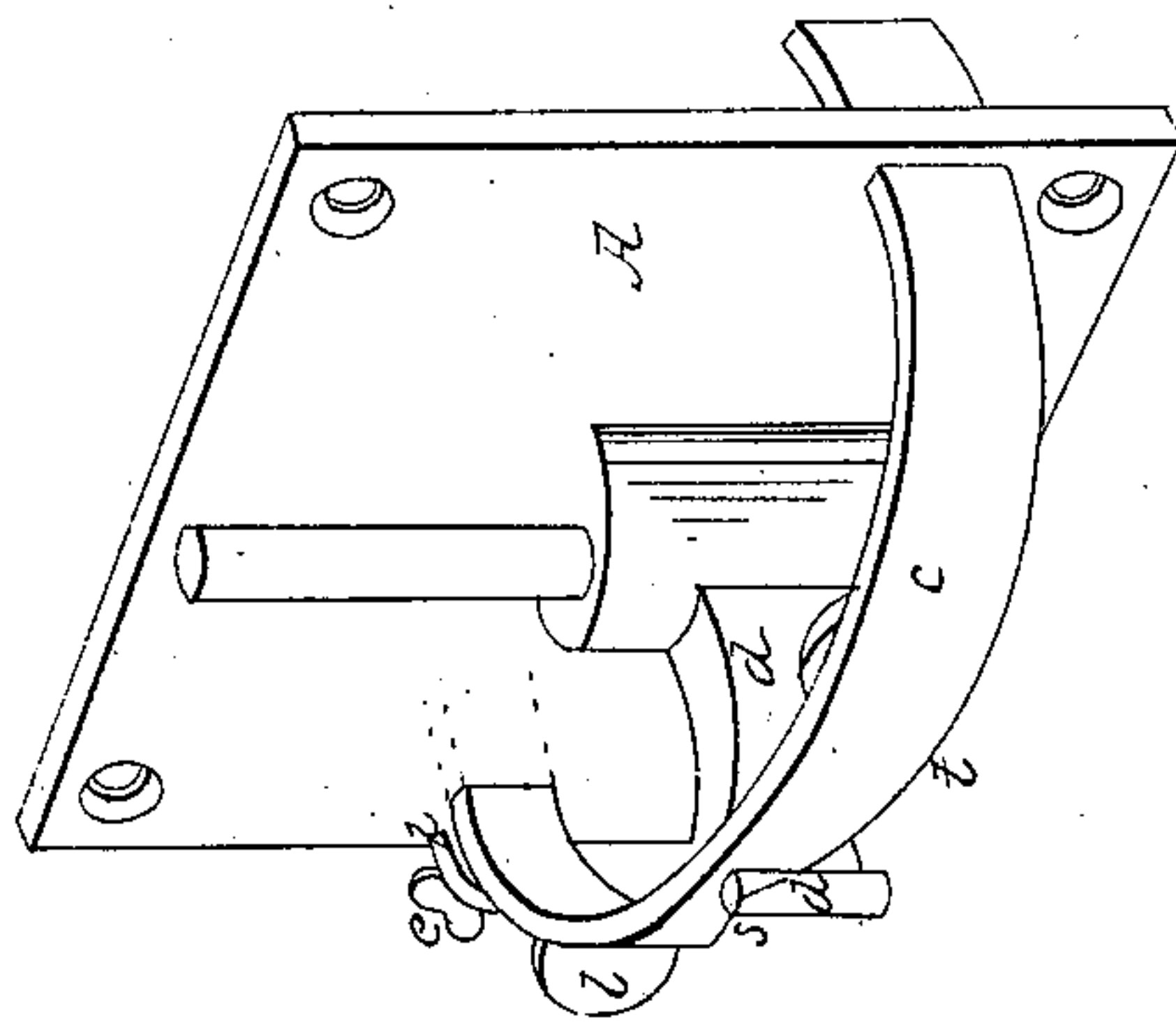
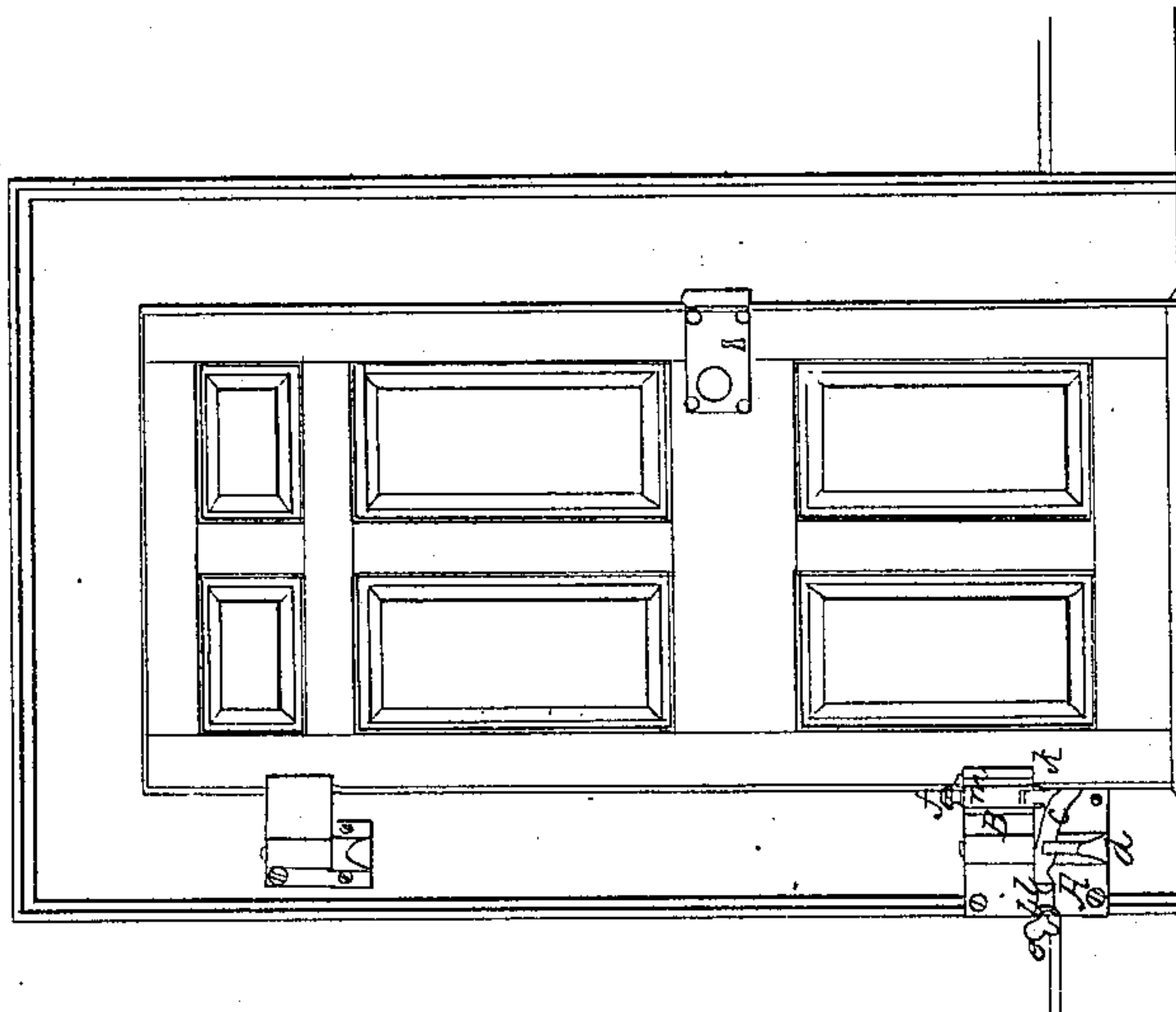


Fig. 1



UNITED STATES PATENT OFFICE.

CHS. H. ROBISON, OF SYRACUSE, NEW YORK.

HINGE FOR DOORS, &c.

Specification of Letters Patent No. 5,608, dated May 30, 1848.

To all whom it may concern:

Be it known that I, CHARLES H. ROBISON, of Syracuse, in the county of Onandaga, and State of New York, have invented and
5 added certain Improvements to Hinges for Doors, Gates, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part
10 of this specification, in which—

Figure 1, is an elevation of a door and casing having one of my improved hinges connected thereto, and Figs. 2 and 3, are enlarged respective views of the component
15 parts of one of my improved hinges, detached, a portion of one of them being broken out for the purpose of showing concealed parts of the same. The nature of my improvement consists in combining an adjustable semi-circular inclined plane to the
20 portion of the hinge made fast to the casing of a door, or side sustaining post of a gate, and an adjustable roller to the portion of the hinge attached to the door, or gate, in
25 such a manner that the adjustable roller will rest and traverse upon the inclined plane sustaining the weight of the door; and also in such a manner that the inclination of the sustaining plane can be varied, and the position of the door adjusted to conform thereto
30 by means of the adjustable roller, so that the door when closed will always be at the same distance from the threshold.

Similar letters indicate like parts in all
35 the figures.

A, is the portion of the hinge attached to the door casing or gate post.

B, is the portion of the same attached to the door or gate.

40 C, is the semi-circular inclined plane, combined with the portion A, of the hinge as follows: The ends of the plane C, pass through apertures in A, and its center is supported in a recess at the end of the arm
45 *d*, projecting from A, as shown in Fig. 2. From *s*, to *t*, is an abrupt inclination on the under edge of C, between which points the plane C, rests in the recess of the arm *d*. The inclination of *c*, is varied by moving

the same to the right or to the left, causing 50 it to rest upon different portions of the inclination between *s* and *t*.

l, is an ear cast upon the curved plane C, by which it is moved to the right or left.

i, is an ear cast upon A, through which 55 passes the set screw *e*, and pressing upon the plane *c*, retains it in any desired position.

m, is a tubular projection cast upon the portion B, of the hinge, which receives the screw *g*, in the upper portion, and the shank 60 *h*, in the lower half thereof.

k, is the bearing friction roller inserted in the lower end of the shank *h*.

f, is a knob on the upper end of the screw *g*, by which it is operated, and thereby the 65 roller *k*, raised or lowered and adapted to the different inclinations of the curved plane *c*.

The curved adjustable inclined plane *c*, serves to raise the door or gate upon which my improved hinge may be placed, so high 70 as to allow it to swing clear of all obstructions; and also, in conjunction with the roller *k*, it serves to close the door when left ajar, and to retain the same when thrown wide open, by the reverse inclination at its 75 upper end, as shown in Fig. 1. When the inclination of *c*, is varied, for the purpose of elevating a door or gate, above obstructions, or to cause the same to be closed with greater or less force; the bearing friction 80 roller *k*, must be adjusted to correspond with the same.

Having thus fully described my improvement in hinges for doors, gates, &c., what I claim therein as new, and desire to secure 85 by Letters Patent, is—

The combination of the adjustable curved inclined plane *c*, with one portion of the hinge, and the adjustable bearing roller *k*, with the other portion thereof, arranged and 90 operating with each other substantially in the manner and for the purpose herein set forth.

CHAS. H. ROBISON.

Witnesses:

A. C. GRISWOLD,
R. MOLWORTH.