J. McGIVENEY.

SNAP HINGE.

APPLICATION FILED JAN. 5, 1922.

1,425,995. Patented Aug. 15, 1922.

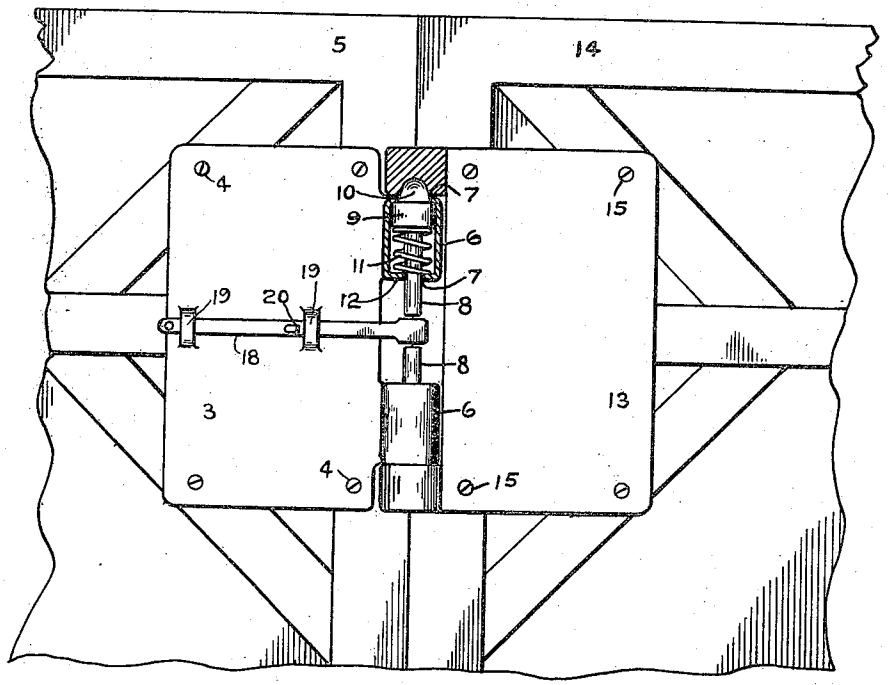


Fig. 1

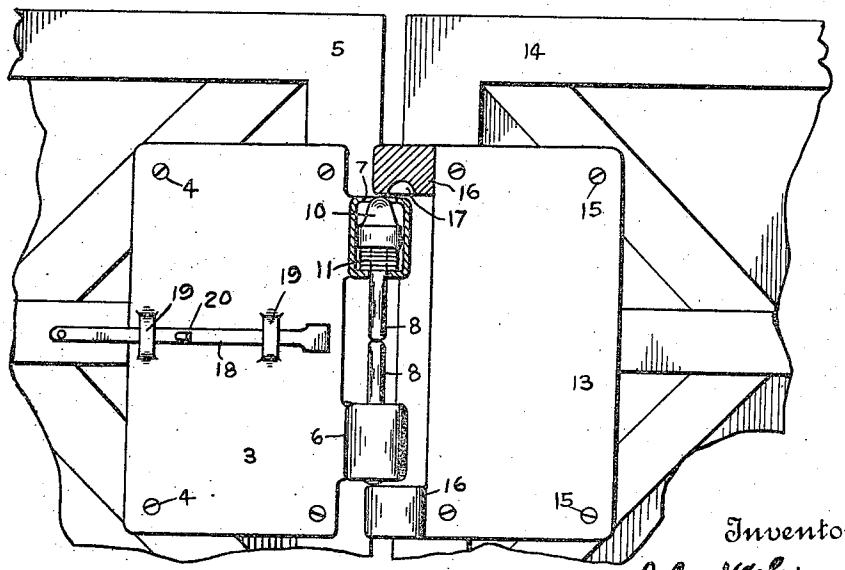


Fig. 2

Inventor
John McGiveney
By his Attorney
Clarence G. Campbell

UNITED STATES PATENT OFFICE.

JOHN McGIVENEY, OF NEW YORK, N. Y.

SNAP HINGE.

1,425,995. Specification of Letters Patent. Patented Aug. 15, 1922.

Application filed January 5, 1922. Serial No. 527,093.

To all whom it may concern:

Be it known that I, JOHN McGIVENEY, a subject of the King of Great Britain and Ireland, and a resident of the United States, residing at the borough of Manhattan, in the county of New York, city and State of New York, have invented certain new and useful Improvements in Snap Hinges, of which the following is a specification.

My invention relates to a snap hinge, and more particularly to the adaptation and arrangement of parts, as will be more fully hereinafter pointed out.

In setting up scenery the different sections are now put together by means of hinges of the usual type in which each of the ordinary pair of hinge plates are rigidly secured to one of the sections and the usual pintle is slipped into the registering loops formed by said plates, thereby hinging the two sections together. This pintle must be removed each time to take the scenery apart and is thus often lost and bent because this must be done at each performance where the scenery is used.

My device solves this problem by furnishing a hinge which can be readily and quickly snapped into operative position, and locked against disengagement and just as readily unlocked and disengaged.

My device is also adapted for use in connection with sectional show cases and many other articles which are made in sections and require connecting means for engaging the sections.

Referring to the drawings, Figure 1 is an elevation of my device locked in the operative position and with a portion cut way to show the operative parts. Fig. 2 is the same as Fig. 1, but with the lock and hinge disengaged.

In the drawings 3 is a hinge plate adapted to be secured by screws 4 to a section of scenery 5, and the plate 3 has integral therewith pockets 6 which have circular openings 7 at each end. Pintles 8 having cylindrical heads 9 which terminate in conical bearings 10 are mounted in the pockets 6 so that springs 11 contact at one end with the heads 9 and at the other end with ends 12 of the pockets 6, and thereby keep the pintles 8 under spring tension, so that the conical bearings 10 normally project through the openings 7 in the pockets 6 in opposite directions.

A second hinge plate 13 is rigidly secured to a second section of scenery 14 by means of screws 15, and the plate 13 has integral therewith cylindrical extension members 16 in which are bearing cups 17 adapted to receive the bearing heads 10 of the pintles 8 and hold them in operative engagement. A locking bar 18 is mounted so as to slide freely under straps 19 on the plate 3 and register between the inner ends of the pintles 8 when they are in operative engagement with the bearing cups 17 and thereby lock them against disengagement from said cups 17.

It is apparent that when the hinge plates 3 and 13 have been mounted by means of screws 4 and 15 respectively that the sections 5 and 14 can readily be joined together by pushing the bearing heads 10 against the edges of the extension members 16 until the heads 10 engage with the cups 17, when springs 11 will hold the heads in natural engagement with the cups 17. The locking bar 18 by means of handle 20, which also serves as a stop to limit the slide of said bar 18, may then be pushed from the position shown in Fig. 2 to the position shown in Fig. 1, when it serves to keep the pintles 8 locked in the engaged position with cups 17.

It is apparent that the pintles 8 could be so mounted by means of the hinge plate 3 that they would project under spring pressure toward one another instead of in the opposite direction, and that the hinge plate 13 having an extension 16 with cups 17 on both sides would be adapted to receive the heads 10 when mounted between said pintles.

I claim:

1. In a hinge, the combination of a pair of pintles each mounted under spring pressure in a hinge plate, and a second hinge plate having cup bearings adapted to receive the heads of said pintles and retain them in operative position, and means for locking said pintles in the engaged position in said pockets, consisting of a locking bar adapted to enter between said pintles and hold them against disengagement from said pockets.

2. In a hinge, the combination of a pair of pintles mounted under spring pressure in

a hinge plate so that the heads of said pintles normally project toward each other, and a hinge plate having an extension and a pair of bearing cups adapted to receive said pintle heads and retain them in operative position.

3. In a hinge, the combination of a pair of pintles mounted under spring pressure in a hinge plate so that the heads of said pintles normally project toward each other, and a hinge plate having an extension and a pair of bearing cups adapted to receive said pintle heads and retain them in operative position, and means for locking said pintles in the operative position.

In testimony whereof I affix my signature.

JOHN McGIVENEY.