No. 686,603. Patented Nov. 12, 1901.

W. GOSSETT.

HINGE.

(Application filed Dec. 22, 1900.)

(No Model.)

Fig. 1.

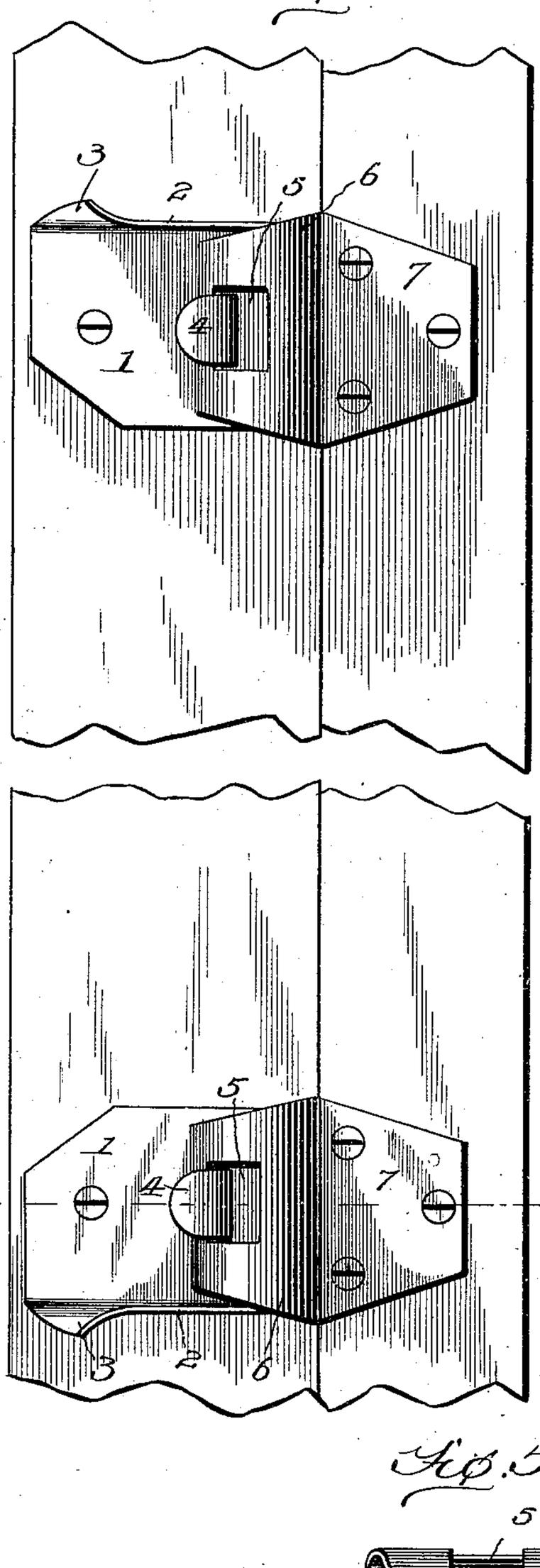


Fig. 2.

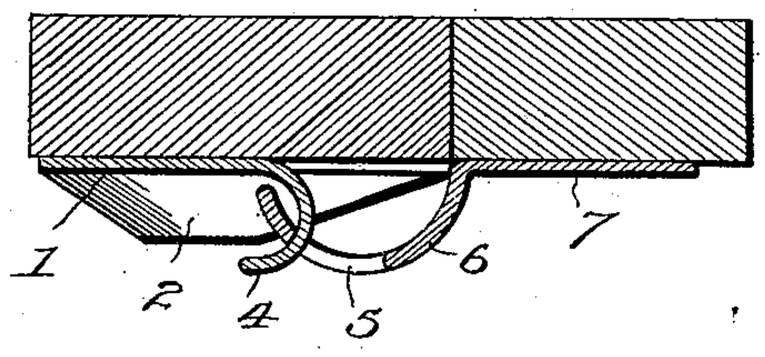


Fig. 3.

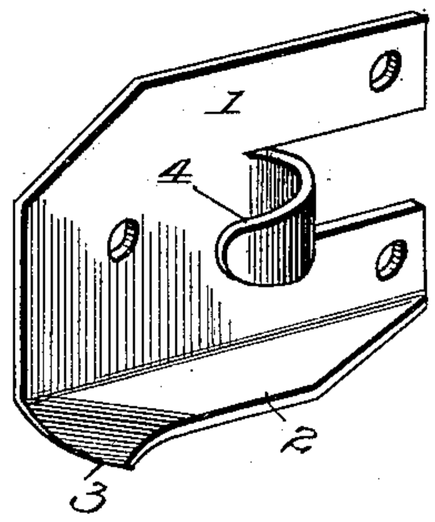


Fig. 4.

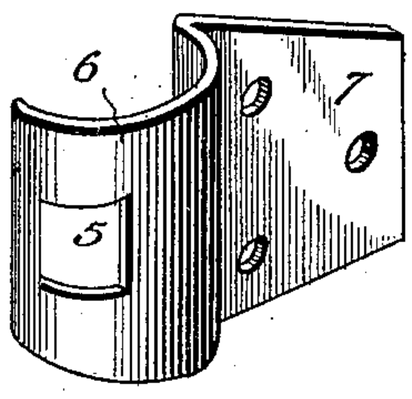
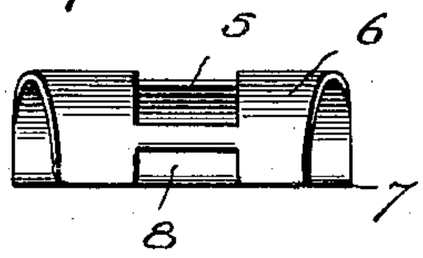


Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM GOSSETT, OF FALLS CITY, NEBRASKA, ASSIGNOR OF ONE-THIRD TO FREDRICK DANIEL KEES, OF BEATRICE, NEBRASKA.

HINGE.

SPECIFICATION forming part of Letters Patent No. 686,603, dated November 12, 1901.

Application filed December 22, 1900. Serial No. 40,799. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM GOSSETT, a citizen of the United States, residing at Falls City, in the county of Richardson and State of Nebraska, have invented new and useful Improvements in Hinges, of which the following is a specification.

This invention relates to new and useful improvements in hinges; and its primary object is to provide a device of simple construction which obviates the necessity of employing the pivot-pin, as heretofore, and which permits the hinged parts to be readily detached from each other.

A further object is to so construct the leaves of the hinges that each of them may be struck up form a single sheet of metal.

With these and other objects in view the invention consists in providing a hinge one leaf of which is provided with a flange adjacent to one of the edges and has a tongue struck up therefrom and curved. This tongue is adapted to engage an aperture formed within an extension of the second leaf of the hinge, said extension being concavo-convex in cross-section.

The invention also consists in so arranging the flanges of the leaves as to prevent vertical movement of the door or other hinged structure when the same is swung upon its hinges.

The invention also consists in certain novel features of construction and combination of parts, which will be hereinafter fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is an elevation of a portion of a screen and its casing, showing the hinges secured thereto. Fig. 2 is a longitudinal section through the hinge. Fig. 3 is a detail view of one of the leaves of the hinge. Fig. 4 is a similar view of the remaining leaf. Fig. 5 is a detail view of a modified form of leaf.

In the drawings the same reference characters indicate the same parts of the invention.

1 is a leaf of a hinge formed from a single piece of sheet metal and having a flange 2, arranged along one edge thereof, the rear end of said flange being inclined outward, as shown at 3. A tongue 4 is struck up from the leaf and is adapted to lie in a plane parallel to the flange 2, before referred to. This tongue is curved outward and is adapted to project through a preferably rectangular aperture 5, formed within a curved extension 6 of the second leaf 7 of the hinge. This leaf is also formed from a single piece of metal, and the curved extension thereof is concavo-convex in cross-section.

The extensions 6 of the hinges are adapted to project from the edge of the screen or other device to which the hinges are secured, and when said screen is swung upon its hinges the ends of the extensions will swing into contact with the tongues, while the lower edge of the lower extension will bear upon the flange 2 adjacent thereto and will prevent downward movement of the screen after the same has been swung open a sufficient distance to remove the tongue 4 from the aperture 5. The flange of the leaf 1 of the upper hinge is preferably arranged at the upper edge of said leaf, so as to prevent the screen from being moved upward.

By employing hinges of this construction screens, storm-doors, &c., can be readily mounted and removed, the inclined ends of the flanges serving to guide the curved extensions 6 to their positions between the flanges of the two hinges.

In Fig. 5 I have shown a modified form of leaf, which may be employed in lieu of the leaf 7, heretofore described. It will be seen that the end of the curved extension 6 of this leaf is provided with a recess 8, which is adapted when the screen is swung open to extend on opposite sides of the tongue, and thereby hold the parts in engagement at all times.

From the foregoing description, taken in connection with the accompanying drawings, the construction and advantages of my improved hinge, it is thought, will be readily apparent without requiring an extended explanation. It will be seen that the device is simple of construction, that said construction permits of its manufacture at small cost, and that it is exceedingly well adapted for the purpose for which it is designed, and it will of course be understood that various changes in

the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. In a hinge, the combination with a leaf having an outwardly-curved tongue, of a second leaf having a curved extension provided with an aperture to receive the tongue.

2. In a hinge, the combination with a leaf having a curved extension formed with an aperture, in combination with a second leaf provided with a flange at one edge having an inclined end, and with a curved tongue adapted to enter the aperture in the other leaf.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM GOSSETT.

Witnesses:
GERTIE WATT,
E. J. SATHWHITE.