

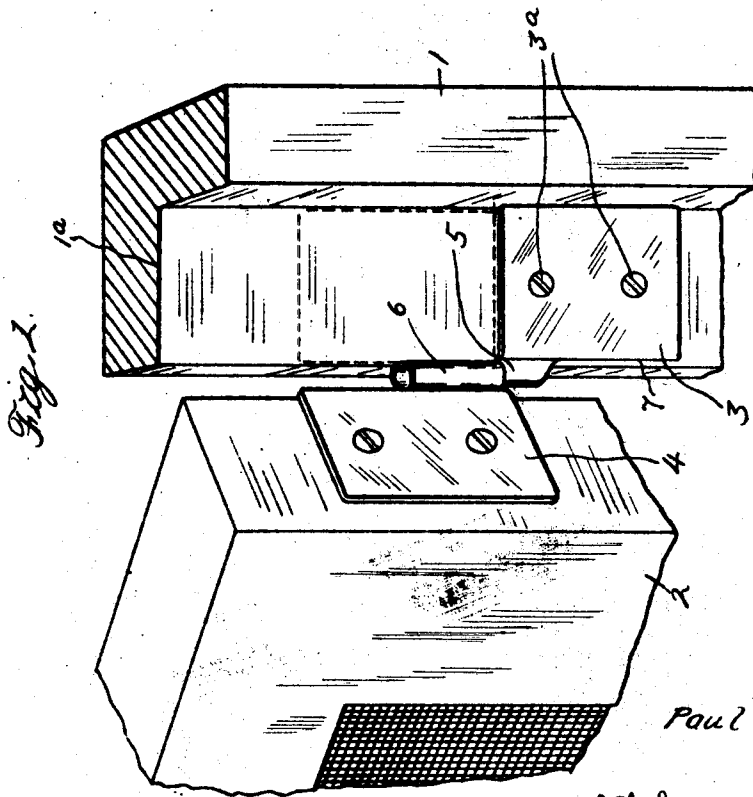
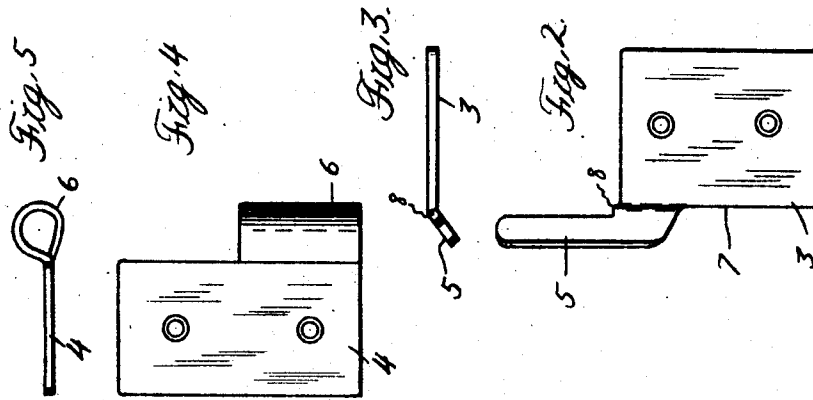
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HINGE

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# UNITED STATES PATENT OFFICE.

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## HINGE.

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This invention relates to hinges and relates particularly to hinges for detachably mounting framed screens in windows or doors.

It is an object of the invention to provide a hinge, the pintle of which is formed by a tongue integrally projecting from one of the leaves of the hinge.

Another object is to provide one leaf of a hinge with an upstanding integral tongue serving as a pintle and to form integrally with the other leaf of the hinge, a barrel quickly detachably engageable with said tongue.

A still further object is to provide a hinge as above described in which the tongue and barrel are so arranged upon the respective leaves of the hinge as to permit said leaves to assume positions one above the other in the closed position of a closure mounted by said hinge.

These and various other objects the invention attains by the construction hereinafter described and illustrated in the accompanying drawing, wherein:

Fig. 1 is a perspective view of the hinge as employed to mount a framed screen upon a window frame, said screen being shown swung to an open position.

Fig. 2 is a front view of the supporting leaf of the hinge.

Fig. 3 is a top view of the same.

Fig. 4 is a front view of the supported leaf of the hinge.

Fig. 5 is a top view of the same.

In these views, the reference character 1 designates the frame of a window (or door), said frame having the usual mortise 1<sup>a</sup> to receive the frame 2 of a window screen or other swinging member. The swinging frame 2 is mounted upon the fixed frame 1 by means of a hinge comprising leaves 3 and 4, both preferably sheet metal stampings. The leaf 3, which is the supporting member of the hinge, is secured to the frame 1 by suitable screws 3<sup>a</sup> and is integrally formed with an upstanding tongue 5, which functions as a pintle to engage within a barrel 6 formed as an integral projection from one edge of the leaf 4. The tongue 5 is laterally offset from the leaf 3, its root portion being a lateral projection from the vertical edge 7 of said leaf. As is best seen in Fig. 3, said tongue is bent in alignment with the edge 7 at an angle of approximately forty-five degrees to the leaf

3 being thus spaced from the face of the frame 1, to which the leaf 3 is secured. Thus there is afforded the necessary clearance space between said tongue and the frame 1 to permit the barrel 6 to pass the tongue 5. The upper edge of the tongue 5 is rounded as Fig. 2 clearly shows to facilitate insertion of said tongue in the barrel 6.

The barrel 6 has the nature of a tongue rolled to tubular form and projecting integrally from the lower half of the leaf 4. By thus extending the tongue 5 upwardly above the leaf 3, provision is made for swinging the leaf 4 to a position above the leaf 3, in the plane of the latter, as is indicated in dash lines in Fig. 1, when the frame 2 is in closed position.

From the preceding description, it will appear that the closure 2 mounted by the described hinge can be removed completely from its mounting by simply raising said closure sufficiently to disengage the barrel 6 from the tongue 5. It will further appear that the described hinge eliminates the expense of providing the usual pintle, as well as that of assembling the leaves upon said pintle.

A still further advantage of the described construction lies in the fact that where upper and lower hinges are used, as is ordinarily necessary, the extreme accuracy of alinement between the pintles of the two hinges, ordinarily necessary, is not required in the described construction for the reason that the tongues 5 may be flexed slightly to prevent binding.

A small shoulder 8 is formed at the base of the tongue 5 and forms a seat for the barrel 6, thus assuring an adequate clearness between the two hinge leaves to permit the upper one to assume a position directly above the lower.

What I claim is:

1. A hinge comprising a leaf integrally formed with a barrel terminating substantially flush with an end of said leaf, and a second leaf having a tongue projecting beyond an end of said leaf to engage in said barrel, and having its base portion shouldered at a point slightly beyond said end of the leaf to establish a clearance between the barrel carrying leaf and the tongue carrying leaf whereby said leaves may swing freely into endwise registration.

2. A hinge comprising a pair of leaves

having the nature of sheet metal stampings, one thereof being formed with an integral tongue outwardly offset from a lateral edge of said leaf, and bent at an obtuse angle to the leaf, and further projecting beyond an end of the leaf, the other leaf having a portion rolled to form a barrel mounting said leaf in a quickly detachable manner on said tongue as a pintle whereby said leaves may swing into endwise registration. 10

In testimony whereof I sign this specification.

PAUL TISHKEN.