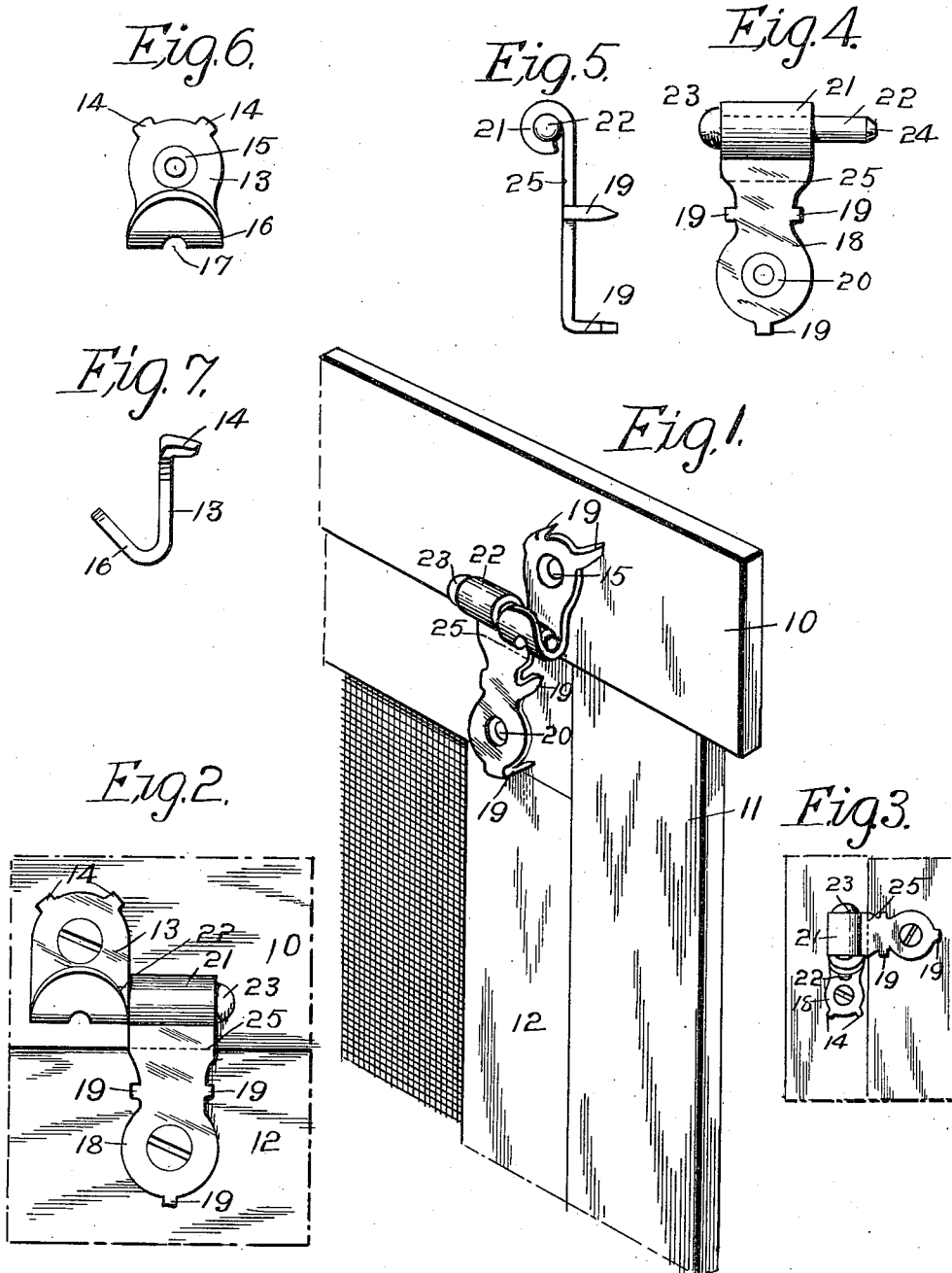


E. L. WATROUS.
 COMBINED HINGE AND HANGER.
 APPLICATION FILED DEC. 3, 1907.

1,033,851.

Patented July 30, 1912.



Witnesses
 A. S. Hague
 S. F. Christy.

Inventor
 E. L. Watrous,
 by Orwig & Lane attys

UNITED STATES PATENT OFFICE.

EDWARD L. WATROUS, OF DES MOINES, IOWA.

COMBINED HINGE AND HANGER.

1,033,851.

Specification of Letters Patent.

Patented July 30, 1912.

Application filed December 3, 1907. Serial No. 405,286.

To all whom it may concern:

Be it known that I, EDWARD L. WATROUS, a citizen of the United States, residing at Des Moines, in the county of Polk and State of Iowa, have invented a certain new and useful Combined Hinge and Hanger, of which the following is a specification.

The objects of my invention are to provide a device which can be used either as a hanger or as a hinge for sashes; that is, one which is so constructed that when the parts are arranged in one way, they will serve the function of a hanger, and when they are arranged in another way, they will serve the purposes of a hinge.

A further object is to provide an improvement of my combined hinge and hanger disclosed in an application for Letters Patent, filed January 16, 1905, Serial No. 241,211, and the particular improvement in said invention relates to the method of fastening the parts of the device to the window frame and sash, and further to an indicator for that part of the device which is designed to be secured to the sash. By the latter two objects a very efficient combined hinge and hanger is provided and one which can be easily and readily secured to the window frame and sash, and which can be accurately put up and thus avoid any binding of the parts on account of poor workmanship.

My invention consists in certain details in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claim and illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of the upper portion of a window frame and sash with my device in position for being secured to the frame and sash. Fig. 2 is a front elevation of my device secured to the upper portions of a window frame and sash. Fig. 3 is a front elevation of the device in the position in which it is used as a hanger. Fig. 4 is a detail elevation of the pin carrying portion of the device. Fig. 5 is a side elevation of the pin carrying device. Fig. 6 is a front elevation of the hook, and Fig. 7 is a side elevation of the hook.

Referring to the accompanying drawings, I have used the reference numeral 10 to indicate a cross piece in the upper portion of a window casing, and the numeral 11 to indicate the sides of the casing.

The numeral 12 represents the sash which is to be held in position by my hanger. The hanger consists of a hook having a body portion 13, which body portion has two or more prongs 14 extending substantially at right angles to it, and a screw opening 15 extending through it, so arranged that these prongs and the screw may be used for securing the hook to the casing. At the opposite end of the body portion 13 of the hook from that upon which the prongs 14 are formed there is a hooked portion which is curved outwardly from the body portion 13 to form the curved portion 16, which is then bent to a position substantially parallel with the body portion. This hooked portion is thus adapted for receiving the pin of the pin carrying portion when the device is used as a hanger, as shown in Figs. 1 and 2 of the drawings.

Extending through the center of the curved portion 16 of the hook is an opening 17, designed to receive the pin of the pin carrying portion when the device is used as a hinge, as shown in Fig. 2. The hook when used as a part of a hanger is designed to be attached to the cross piece 10 of the casing, and when used as a part of the hinge is to be attached to one of the sides 11 of the casing.

The pin carrying portion, above referred to, comprises a body 18 which has a number of prongs 19 extending substantially at right angles to it, preferably with one of said prongs at its extreme outer end, and the other of said prongs substantially mid-way between the ends of the pin carrying portion. The pin carrying portion has a screw opening 20 substantially equi-distant from each of the prongs 19, designed to receive a screw for securing, together with the prong 19, the pin carrying portion to the sash. The opposite end of the pin carrying portion from that which has the screw opening 20 in it, is bent until its outer end engages the body portion 18 to form the pin receiving loop 21. Extending through this pin receiving loop is the pin 22 having the head 23 at one end thereof, and its other end slightly rounded at 24 to adapt it for easily entering the opening 17 in the curved portion of the hook when the device is used as a hinge.

I have provided a gage or indicating mark 25 on the outer surface of the body portion 18, so drawn as to indicate exactly the posi-

tion where the pin carrying portion should be placed upon the sash. This indicating mark 25 is designed to be exactly in line with the upper edge of the sash when my device is used as a hanger, and this line is to be exactly in line with the edge of the side portion 12 of the sash when the device is used as a hinge. On account of this indicating mark, the person putting up the device first puts up the pin carrying portion by placing this line in its proper relation to the edge of the sash, and then no difficulty is experienced in adjusting the hook in the proper position, the device is easily attached. On account of the prongs being provided in both the hook and the pin carrying portion, these are easily secured to the window frame and the screen respectively by simply striking the respective portions and forcing the prongs into the wood beneath, after which a screw is driven through the screw openings 15 and 20, and the device is securely held in position relative to the parts to which they are to be attached. As these devices are used as being put up in exactly the same way as described in my previous application, above referred to, and to which particular attention is called, a further description of them is believed to be unnecessary.

Having thus described my invention, what I claim and desire to secure by Letters Patent of the United States, therefor is—

An adjustable hinge and hanger compris-

ing a hook member of sheet metal having a flat body portion which terminates at one end in a hook, said body portion having a single screw opening and having at the end remote from said hook a pair of integral prongs located on each side of said screw opening and extending approximately at right angles to said body portion, said prongs serving to prevent the turning of said body portion about a screw placed in said screw opening, the hook on said body portion being provided with an opening, a pin-carrying member of sheet metal comprising a flat body portion, and an integral pin carrying portion, said body portion having a single screw opening with a pair of integral prongs above said opening, and a single prong below said opening and forming an extension of the lower end of said body portion, a pin detachably mounted in said pin carrying portion to engage said hook or to extend through the opening thereof, and an indicating mark on said second body portion between the pin carrying portion and the side prongs in position to indicate where the edge of the hinged member should be when the device is in position for normal use.

Des Moines, Iowa, Nov. 12, 1906.

EDWARD L. WATROUS.

Witnesses:

S. F. CHRISTY,

JULIA B. SMUTNEY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."