W. E. BANZETT.

LOCKING ATTACHMENT FOR HINGES.

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1,133,454.

Patented Mar. 30, 1915.

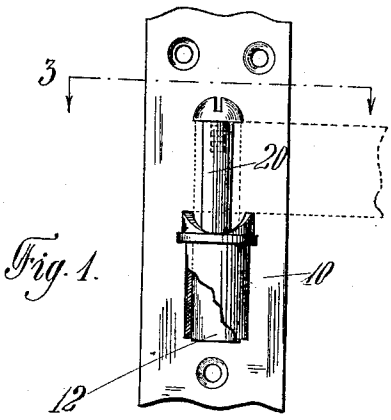


Fig. 1.

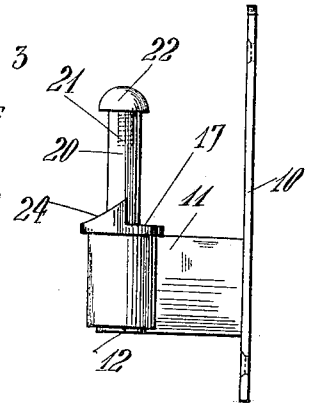


Fig. 2.

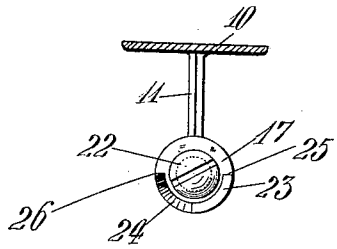


Fig. 3.

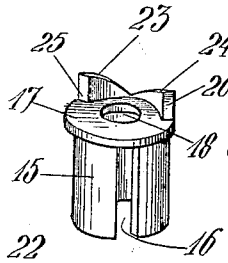


Fig. 4.

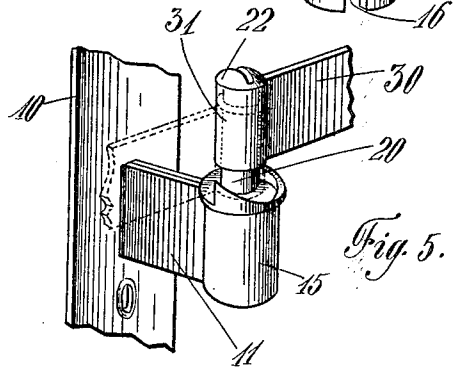


Fig. 5.

Witnesses:
Fred. Roger
Warren E. Willis

Inventor
William E. Banzett

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM E. BANZETT, OF HUNTINGDON, NEW YORK.

LOCKING ATTACHMENT FOR HINGES.

1,133,454. Specification of Letters Patent. Patented Mar. 30, 1915.

Application filed November 28, 1914. Serial No. 874,390.

To all whom it may concern:

Be it known that I, WILLIAM E. BANZETT, a citizen of the United States, and a resident of Huntingdon, in the county of Suffolk and State of New York, have invented certain new and useful Improvements in Locking Attachments for Hinges, of which the following is a specification.

This invention relates to improvements in locks and particularly to that class adapted to be used in connection with shutters and similar light swinging structures.

The object of the invention is to provide a device, applicable to hinges of the class described, whereby, in addition to performing its usual functions, the hinges are rendered capable of maintaining the swinging element in either a fully open, closed or intermediate position.

This and other objects, such as general adaptability, simplicity and low cost of construction, are attained by the novel arrangement of parts hereinafter described and shown in the accompanying drawings, forming part of this specification and in which:

Figure 1 is a front elevation of a fixed hinge member showing the application of the device. Fig. 2 is a side elevation of the same. Fig. 3 is a partial plan view and section taken on line 3—3 of Fig. 1. Fig. 4 is a perspective view of the locking means in detail, and, Fig. 5 is a perspective view showing its application.

The invention is specially adapted to be applied to a shutter hinge in which one part is movable with relation to the other on the axis of its pintle or stem.

In the drawings, the numeral 10 indicates the plate of the fixed or stationary hinge member, the same having a projecting arm 11, the outer end of which is formed into a tubular support 12. The said hinge is of the duplex type employed with blinds that have been in common use for years and consists of two members the lower one comprising a wrought iron leaf bent at 12 around the pintle 20 and then retracted so as to lie against the first named part of the leaf. The pintle of the lower leaf of the hinge, having no other support than the pressure of the duplex part of the leaf, is apt to work loose by the weight and jarring action of the blind that hangs on the same, and one purpose of my attachment is to hold, when applied to the lower leaf of a hinge, the two straight edged portions or duplex part of the said leaf securely together by a slot inclosing the entire width thereof in order to prevent the separation of the same and the consequent loosening and loss of the pintle from the tubular support 12. On this is fitted a metal sleeve or cylinder body 15 having a slot 16 so formed as to neatly fit over the arm 11 which prevents it from turning.

At the top of the sleeve 15 is a disk-like portion 17 having a central opening 18 through which the hinge pintle 20 is adapted to project as it extends up from the support 12. The pintle is drilled and tapped at its upper end to receive a screw 21 having a head 22 substantially equivalent to the diameter of the support 12. Also on top of the disk 17 are upstanding projections 23 and 24 having straight faces 25 and 26, offset from the center sufficient to accommodate the straight portion 30 of the movable hinge member. This portion is formed at its extreme end into a cylindrical member 31 adapted to freely revolve on the pintle 20, the lower portion resting on top of the disk 17, inside the projections 23 and 24, when the hinge is in either of its extreme positions, thereby positively maintaining the hinged structure in either of its extreme positions. In order to change from one position to the other, it is only necessary to raise the shutter or other hinged structure bodily to such a height as to allow the member 30 to clear the tops of the projections 23 or 24, the screw head 22 acting as a stop to prevent overrising, whereupon it may be turned upon the pintle 20 as usual.

My attachment is entirely separate from, and independent of the normal action of, the hinge proper. It is primarily designed to be used in connection with blinds already in use without removing the leaves or hooks 11, 30 of the same, as it requires no screws or other fastening devices, but is merely slipped over the hook of the blind between the members of the hinge. The engagement of my attachment with the members of leaves of a hinge adapted to work freely one on the other takes place exterior of the articulation thereof comprising the knuckled or rounded portions, 12, 31 and pintle 20, as the slot 16 in the cylinder body slips over the arm of the hook forming one member, while the arm of the hook comprising the other member fits into the space formed by the faces 25, 26, or lies between the abutments 23, 24. Consequently, no special form of

hinge hook has to be used with my device, as the ordinary ones having straight or horizontal top and bottom portions may be employed.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

A hinge having two members, the lower one being formed with duplex straight edged members exterior of the articulation thereof, one member being adapted to work freely upon the other without any adjustment, in combination with a supplemental and independent attachment therefor comprising a sleeve attachable to and detachable from the hinge between the two members of the same, and having a slot adapted to interlock with one of the hinge members and inclose the said duplex leaf the entire width of the same exterior of the articulation thereof so as to hold the duplex leaf together and to be held by the said member in an immovable relation, and also having means comprising retaining spaces at the upper part of the same to interlock with the other hinge member exterior of the articulation thereof to hold the last named member immovable in a plurality of positions at will.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM E. BANZETT.

Witnesses:

WILLIS H. PLACE,

ROY K. DAVIS.

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