DISAPPEARING HANGER BOLT

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DISAPPEARING HANGER BOLT

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2 Claims. (Cl. 2-105)

1. The invention herein disclosed relates to an improved fastener device which is expressly, but not necessarily, adapted to hang and effectively fasten storm shutters and the like on building walls, particularly a masonry wall, and appertains, more explicitly, to a device which is characterized by a disappearing or receding bolt and a special adapter sheath in which said bolt is operably mounted, the sheath being adapted to be anchored on said wall in a manner to allow the threaded part of the bolt to project in open accommodation end to be readily projected and retracted so as to function as desired.

2. Figure 1 is an elevational view of the disappearing bolt device showing the manner in which same is nailed in place on a wooden stud.

3. Figure 2 is an elevational view of the device showing a slightly modified type of sheath and showing the same imbedded in a concrete or masonry wall.

4. Figure 3 is a top plan view of the form of the invention depicted in Figure 2.

5. Figure 4 is a longitudinal sectional view taken centrally through the structure disclosed in Figure 3.

6. Figure 5 is a cross-section taken on the plane of the line 5-5 of Figure 3, looking in the direction of the arrows.

7. Figure 6 is a central cross-sectional view taken on the line 6-6 of Figure 4, looking in the direction of the arrows.

8. Referring now to the drawings by distinguishing reference numerals, it will be seen that the wooden framework partly disclosed in Figure 1, is denoted by the reference character A, the same including a piece of studding B and showing a part of a wooden blind or the like C bolted in place.

9. The elongated adapter sheath is denoted by the numeral 8 and comprises an envelope-like shell whose body portion 9 is somewhat ovate in cross-sectional form as illustrated in the drawing. The inner end portion, the portion at the left in Figure 1, is restricted as at point 10 to form an inner stop and beyond the point of restriction is flattened, as at 11, and apertured to provide a positioning and nailing tang, this to accommodate the nail 12. The opposite end portion is formed centrally into a substantially cylindrical neck 13 and is flattened into lugs 14 on diametrically opposite sides of the neck, said lugs being provided with nail holes to accommodate the nails 15. The portion adjacent the neck and lugs is reduced and restricted in cross-section dimension as at 16 to provide a shoulder. This shoulder co-acts with the shoulder 10, the two shoulders serving to limit the inward and outward sliding movements of the head 17 of the bolt 18. The bolt slides in and out through the neck and is threaded at its outer end as at 19 to accommodate a wing-nut 20.

10. Fundamentally, the modification shown in Figures 2 to 6 inclusive is the same as that already described but here the sheath is differentiated by the numeral 21, the same having one end portion reduced and restricted, as at 22, to provide a shoulder, and then being flattened, as at 23, to provide an appropriate closure. The op-
posite end is also flattened into ears or lugs 24 on diametrically opposite sides of the central bolt accommodation neck 25. Here again, the restriction at the point 28 and the flattened lugs 24 provide a stop shoulder for the bolt head 26 on the shank 21 of the bolt, the outer end of the bolt being threaded as at 28 and passing through and beyond the neck and serving to accommodate a hexagonal or equivalent assembling and binding nut 29.

It is to be understood that the claims are drawn to cover both types of adapters and that the adapter 8 may be used with either wooden or masonry wall constructions. Also, the adapter may be of some other cross-sectional shape than that shown depending upon requirements of the trade.

Minor changes in shape, size, materials and rearrangement of parts may be resorted to in actual practice so long as no departure is made from the invention as claimed.

A careful consideration of the foregoing description in conjunction with the invention as illustrated in the drawings will enable the reader to obtain a clear understanding and impression of the alleged features of merit and novelty sufficient to clarify the construction of the invention as hereinafter claimed.

I claim:

1. A disappearing shutter hanging and fastening device comprising an elongated bolt and casing and anchoring sheath adapted for fixed anchorage on a stationary building wall or the like, said sheath being an imperforate casing and having smooth internal wall surfaces, the opposite transverse end portions of said casing being flattened and the portions just inwardly of said flattened ends being thus substantially reduced and restricted in cross section and providing longitudinally spaced shoulders, one at the inner end of the casing and the other at the outer end of the casing, a headed nut equipped bolt, the major portion of the shank and head on said shank being slidably mounted in said sheath and adapted to be slid in or out in relation to the sheath, depending on requirements for use, the outer nut equipped end of the shank extending through the outer flattened end of the sheath, the central portion of said outer flattened end being a neck and said shank being snugly and slidably fitted in said neck, the portions of said last named flattened end, on opposite sides of said neck, being apertured to provide ears for nailing said sheath on a fixed support.

2. A disappearing shutter hanging and fastening device comprising an elongated bolt and casing and anchoring sheath adapted for fixed anchorage on a stationary building wall or the like, said sheath being an imperforate casing and having a wholly smooth internal wall surface, the opposite transverse end portions of said casing each being flattened and the portions just inwardly of said flattened portions being thus substantially reduced and restricted in cross section and providing transversely disposed longitudinally spaced shoulders, one at the inner end of the casing and the other at the outer end of the casing, a headed nut equipped bolt, the major portion of the shank and head on said shank being mounted and unrestrictedly slidable in said sheath and adapted to be slid in or out in relation to the sheath depending on requirements for use, the outer nut equipped end of the shank extending through the outer flattened end of the sheath, the central portion of said outer flattened end having a neck and said shank being snugly and slidably fitted in said neck, the portions of said last named flattened end on diametrically opposite sides of said neck being apertured to provide nailing ears, and the first named flattened end having an extension laterally directed in respect to the longitudinal axis of the sheath and provided with nail holes, whereby said extension may be nailed or otherwise fastened to a relatively fixed support.

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