

Sept. 27, 1966

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3,275,272

SWIVEL HOOK FOR APERTURED BOARD

Filed Oct. 11, 1965

Fig. 1. PRIOR ART

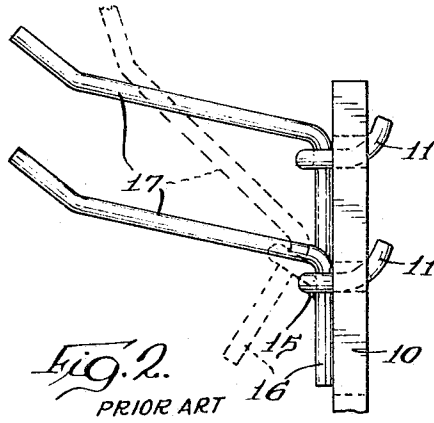
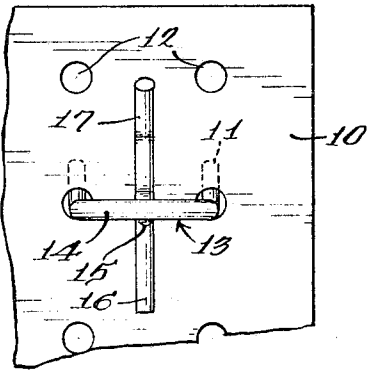


Fig. 3. ← 5.

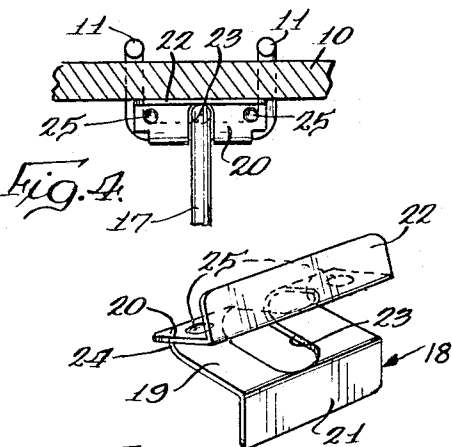
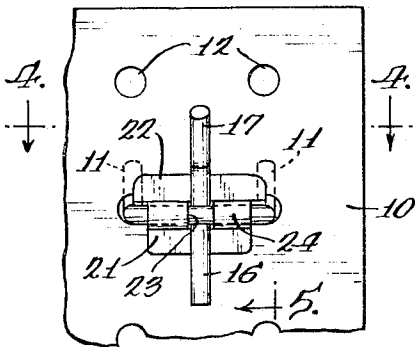


Fig. 8.

Fig. 5.

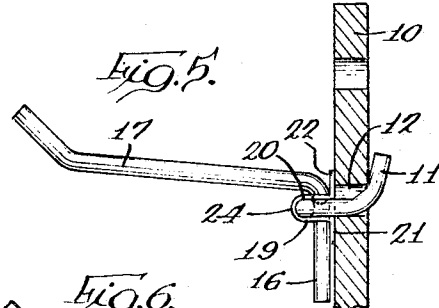


Fig. 6.

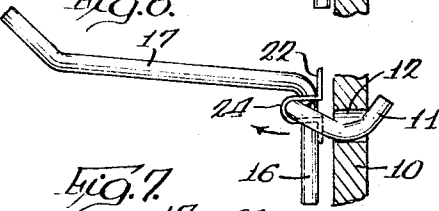
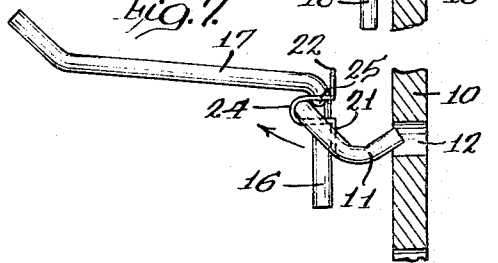


Fig. 7.



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1

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SWIVEL HOOK FOR APERTURED BOARD

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Filed Oct. 11, 1965, Ser. No. 494,365

3 Claims. (Cl. 248—225)

This invention relates to improvements in hook members for detachable engagement with a board formed with regularly spaced apertures, generally known as Peg Board, comprising a hanger arm component adapted to extend normally from the face of said board and a substantially U-shaped bracket member, sometimes designated as a "bull horn," adapted to be anchored to said board through a pair of its apertures, the hanger arm comprising an angularly bent portion adapted to abut against the face of the board.

Heretofore, the two aforesaid components, namely the "bull horn" and the hanger arm, were welded together to form a single component. For engaging and disengaging a plurality of said units to a Peg Board, it was necessary to tilt the hanger arm upwardly into an area generally occupied by another unit. When adjacent hangers are loaded, engagement or disengagement of an adjacent unit causes movement into the path of an upwardly disposed unit, and this required the taking out of a number of upper units with their contents and then repositioning them and their contents.

It is an object of the present invention to permit engagement or disengagement of hook means from the Peg Board in individual manner without disrupting or disengaging hook units positioned above the one desired to be disengaged or engaged.

The objects of the present invention are accomplished by hingedly securing the "bull horn" component to the hanger arm in a manner whereby the units may be separately engaged or disengaged without disturbing the upwardly adjacent units or their contents, in a simple and convenient manner. Thus the present invention provides a hinged or swivel engagement means between the "bull horn" and the hanger arm components so that the "bull horn" can be disengaged from the Peg Board in an arcuate movement while maintaining the hanger arm in a substantially horizontal position and in a manner whereby the upwardly adjacent unit or its contents are not disturbed.

The objects and advantages of the present invention, its details of construction, arrangement of parts and the economies thereof, will be further apparent from a consideration of the following specification and accompanying drawings, wherein:

FIG. 1 is a front elevational view of a portion of a Peg Board with a hook unit of the prior art, that is, where the "bull horn" and hanger arm components are welded together.

FIG. 2 is a side elevational view of the prior art arrangement of FIG. 1, showing in dotted lines the manner required for engagement or disengagement of the hook unit.

FIG. 3 is a front elevational view of a portion of a Peg Board showing the hook member of the present invention.

FIG. 4 is a section on the line 4—4 of FIG. 3.

FIG. 5 is a side elevational view taken on the 5—5 of FIG. 3.

FIGS. 6 and 7 are views progressive to FIG. 5 showing the manner of engaging or disengaging the hook members of the present invention to the Peg Board.

FIG. 8 is a perspective view of the hinge or swivel clamp member of the present invention for connecting the components thereof.

Referring to the drawings, the reference numeral 10

2

illustrates a board formed with regularly spaced apertures 12 generally known as a Peg Board and adapted to be mounted in vertical disposition on a suitable wall or other support, and which has engaged into an adjacent pair of apertures a hook member of the prior art. These generally comprise a "bull horn" generally indicated as 13 which is in the form of a substantially U-shaped bracket member comprising a spaced pair of parallel arms 11 bent at their rearward ends substantially arcuate to a substantially 90° angle, so that when engaged in the openings 12 the terminal arm portions 11 abut against the rear face of the board 10. Secured to the base 14 of the "bull horn" by welding, as at 15, is the downwardly angularly bent arm 16 of the hanger member 17, the angularly bent arm portion 16 extending rearwardly of the "bull horn" base 14 and adapted to lie in abutment against the face of the Peg Board 10.

As shown in FIG. 2, for the purpose of engaging or disengaging a hook member unit of the prior art it is necessary to pivot the arm 17 into the path of the upwardly adjacent arm 17 and of necessity abutment against the upper arm 17 and any contents which may be suspended thereon. Thus, not only was there disruption of the contents of the lower arm 17 but also the contents of an upwardly disposed arm 17, to the end that it was necessary to remove any upwardly disposed arms and their contents in order to engage or disengage a single lower disposed hook member unit.

In accordance with the present invention, as shown in FIGS. 3 to 8, I provide pivot means for joining the hanger arm and the "bull horn" component whereby engagement or disengagement of one unit with the Peg Board will not disturb an upwardly disposed similar unit or the contents thereof, since the movement of the arm 17 is substantially in a vertical direction without necessity for tilting it upwardly. Thus, in accordance with the present invention I provide pivotal connection or a swivel clamp generally indicated as 18 composed of a strip of spring metal bent to define the opposed pair of leaves 19 and 20 terminating in the flanges 21 and 22, the leaves 19 and 20 being formed with aligned apertures or which may be in the form of a single slot 23 in the flat sheet which when bent provides substantially aligned openings in the opposed leaves 19 and 20 with an elongated groove or seat 24 connecting them at the base of the leaves 19 and 20. The clamp 18 is disposed over the base 14 of the hook unit 13, seating the base in the groove formed by the bend 24.

As an aid to retaining the portion 14 of "bull horn" member 13 within the seat 24, a pair of depressions or dimples 25, 25 are provided in the upper leaf 20. The angularly bent portion 16 of the arm 17 is then projected through the aperture 23 so that it is disposed inwardly of the "bull horn" base 14 and thus adapted to lie against the face of the Peg Board 10.

Thus, in engaging or disengaging the present hook assembly from the Peg Board 10 the hanger arm 17 can be held substantially horizontal and the "bull horn" only pivoted in arcuate fashion into and out of the apertures 12. In this operation there is only slight vertical movement of the hanger arm 17 to an extent which does not move into disrupting contact with an upwardly positioned unit.

Although I have shown and described the preferred embodiment of my invention, it will be understood by those skilled in the art that changes may be made in the details thereof without departing from its scope as comprehended by the following claims.

I claim:

1. A hook member for detachable engagement with a board formed with regularly spaced apertures, compris-

ing a hanger arm component adapted to extend normally from the face of said board and a substantially U-shaped bracket member adapted to be anchored to said board through a pair of its apertures and means pivotally connecting said arm and said bracket whereby said bracket can be engaged to and disengaged from said board in an arcuate directional manner while maintaining said hanger arm disposed substantially normal to the plane of said board.

2. A hook member for detachable engagement with a hanger board formed with a series of regularly spaced circular apertures, comprising a bracket member composed of solid wire of lesser diameter than said apertures and of substantially U-shaped form comprising a spaced parallel pair of arms adapted to be received in a spaced pair of said board apertures, said arms being bent substantially arcuately to substantially 90° and thereby adapted when projected upwardly through a pair of said apertures to abut against the back of said board with the base connecting said arms lying in spaced relationship to the front of said board, a hanger arm adapted to extend normally to and from the front of said board, and hinge means yieldably engaged to a right angularly bent component of said arm and pivotally engaged to said bracket base.

3. A hook member for detachable engagement with a hanger board formed with a series of regularly spaced circular apertures, comprising a bracket member composed of solid wire of lesser diameter than said aper-

tures and of substantially U-shaped form comprising a spaced parallel pair of arms adapted to be received in a spaced pair of said board apertures, said arms being formed with terminals bent substantially arcuately to substantially 90° and thereby adapted when projected upwardly through a pair of said apertures to abut against the back of said board with the base connecting said arms lying in spaced relationship to the front of said board, a hanger arm adapted to extend normally to and from the front of said board, and hinge means yieldably engaged to a right angularly bent component of said arm and pivotally engaged to said bracket base, said hinge means comprising a spring metal sheet bent to medially define an elongated groove pivotally receiving said bracket base and a pair of leaves formed with aligned apertures receiving and yieldably engaging said angularly bent arm component inwardly of the base of said bracket member and forwardly of said board.

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