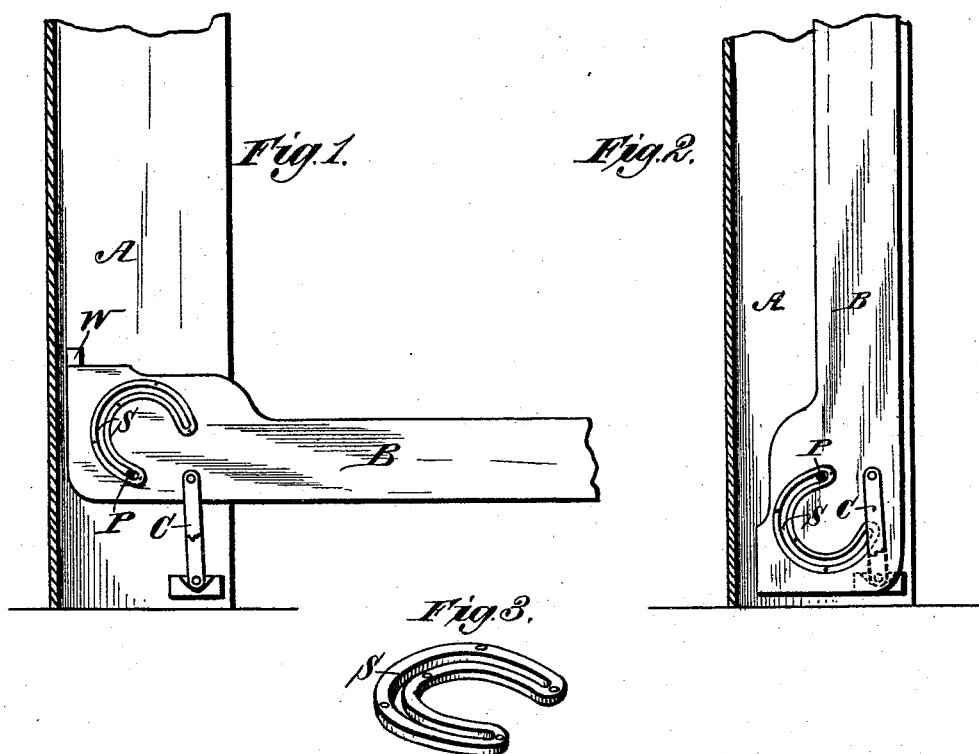


(No Model.)

D. H. BRENNER.  
FOLDING BED.

No. 492,707.

Patented Feb. 28, 1893.



*Witnesses.*  
*Robert Everett.*  
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*By* *Edward Tiggart, Atty.*

# UNITED STATES PATENT OFFICE.

DAVID H. BRENNER, OF GRAND RAPIDS, MICHIGAN.

## FOLDING BED.

SPECIFICATION forming part of Letters Patent No. 492,707, dated February 28, 1893.

Application filed January 6, 1892. Serial No. 417,200. (No model.)

*To all whom it may concern:*

Be it known that I, DAVID H. BRENNER, a citizen of the United States, residing at the city of Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Folding Beds, of which the following is a specification.

This invention has for its object to provide a folding bed with novel means whereby the inner end of the pivoted bed section is forced in a perpendicular plane as such section is raised and lowered, for the purpose of enabling the bed section to fold closely in the stationary case and to render it possible to construct the latter of comparatively contracted depth.

To accomplish this object my invention involves the features of construction and the combination or arrangement of parts hereinafter described and claimed, reference being made to the accompanying drawings, in which—

Figure 1 is a side elevation of a portion of a folding bed constructed according to my invention, a portion of the pivoted bed section being lowered in the position for use. Fig. 2 is a similar view showing a portion of the pivoted bed section folded into the stationary case, and Fig. 3 is a detail perspective view of the grooved guide plate or casting.

In order to enable those skilled in the art to make and use my invention I will now describe the same in detail referring to the drawings wherein

The letter A indicates a stationary case or frame of any ordinary construction and B one of the side rails of a pivoted bed section adapted to be lowered into a horizontal position for use and to be folded into a vertical position into the stationary case. A supporting arm C is pivoted at its lower end to the stationary case and at its upper end is pivoted to the side rail B at some distance above the lower edge thereof, whereby the pivoted bed section can be carried back a proper distance into the case when the bed is folded as in Fig. 2.

The letter S indicates a guide plate or casting having an approximately semi-circular groove and secured to the side rail B in such position that a guide pin or stud P rigidly attached to the stationary case projects into the groove. A suitable counterbalance weight W is preferably attached to the side rail in the

usual manner to facilitate folding and unfolding the pivoted bed section. The grooved guide plate or casting controls the swinging motion of the supporting arm C, and the construction of the semi-circular groove in the metallic guide plate or casting is such that when the bed section is raised the inner end thereof is forced in a perpendicular plane by the action of the walls of the groove against the pin or stud, whereby the bed section is susceptible of folding closely into the stationary case. This renders it possible to construct the stationary case of comparatively contracted depth.

I have illustrated in the drawings the construction of the devices at one side of the bed, but in practice the same construction is duplicated on the opposite side.

Having thus described my invention, what I claim is—

1. In a folding bed, the combination with the stationary case, the pivoted supporting arm, and the side rail of a bed section, pivoted to the supporting arm, of a metallic pin or stud on the case, and a guide arranged on the rail and provided with an approximately semi-circular groove into which the stud or pin projects so that when the pivoted bed section is raised the walls of the groove operate on the pin or stud to force the inner end of the pivoted bed section in a perpendicular plane, substantially as described.

2. In a folding bed, the combination with a stationary case having a laterally projecting pin or stud, the pivoted supporting arm, and the side rail of a folding bed section pivoted to the supporting arm, of a metallic guide plate or casting secured to the side rail and formed with an approximately semi-circular groove into which the pin or stud projects so that as the pivoted bed section is raised the walls of the semi-circular groove operate on the pin or stud to force the inner end of the bed section in a perpendicular plane, substantially as described.

In witness whereof I have hereunto set my hand and seal in the presence of two witnesses.

DAVID H. BRENNER. [L. S.]

Witnesses:

EDWARD TAGGART,  
CORWIN S. UDELL.