

No. 658,605.

Patented Sept. 25, 1900.

G. H. WILLIAMS.  
CASTING METALLIC BEDSTEADS.

(Application filed Sept. 18, 1899.)

(No Model.)

FIG. 1.

FIG. 7.

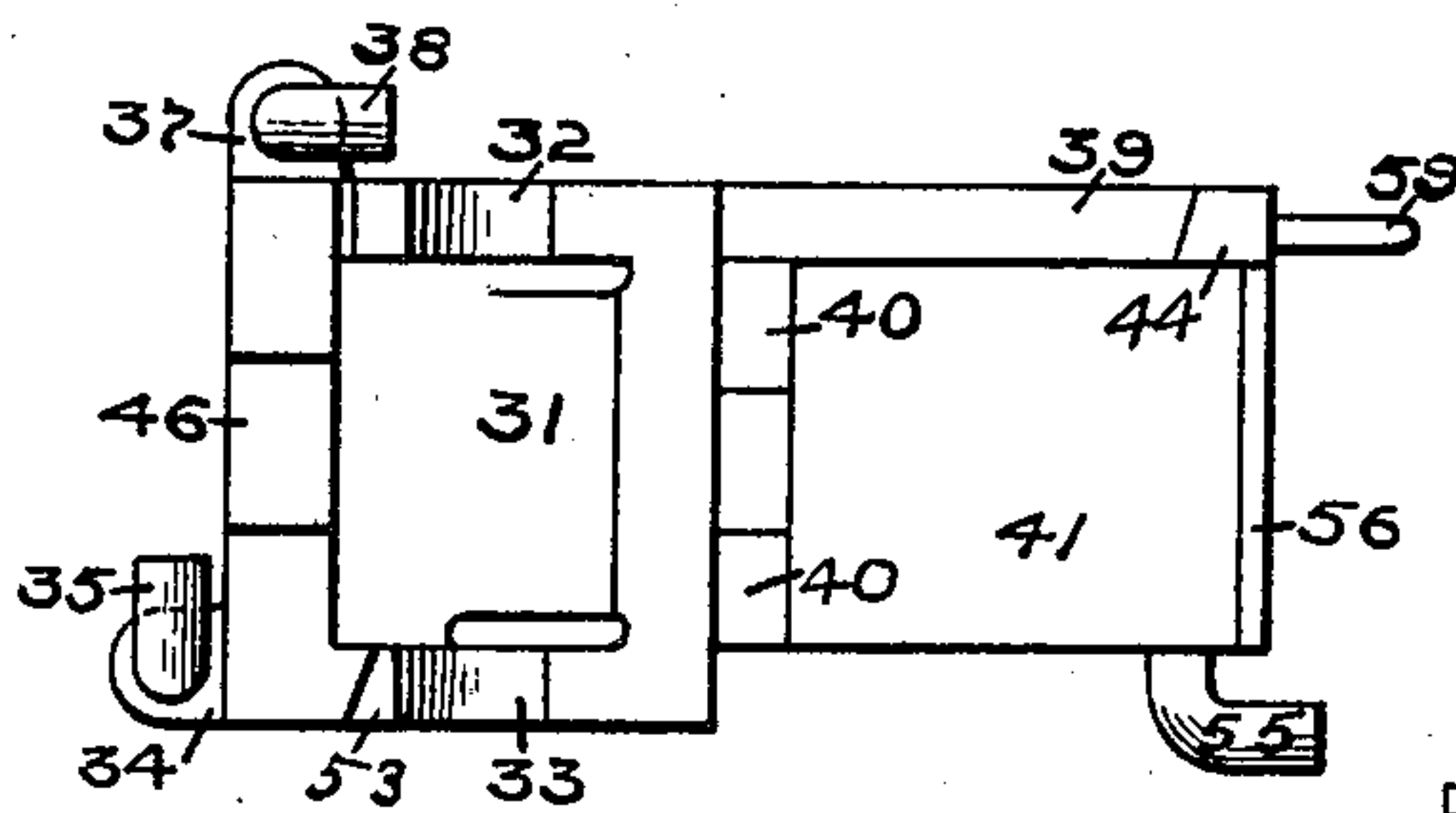
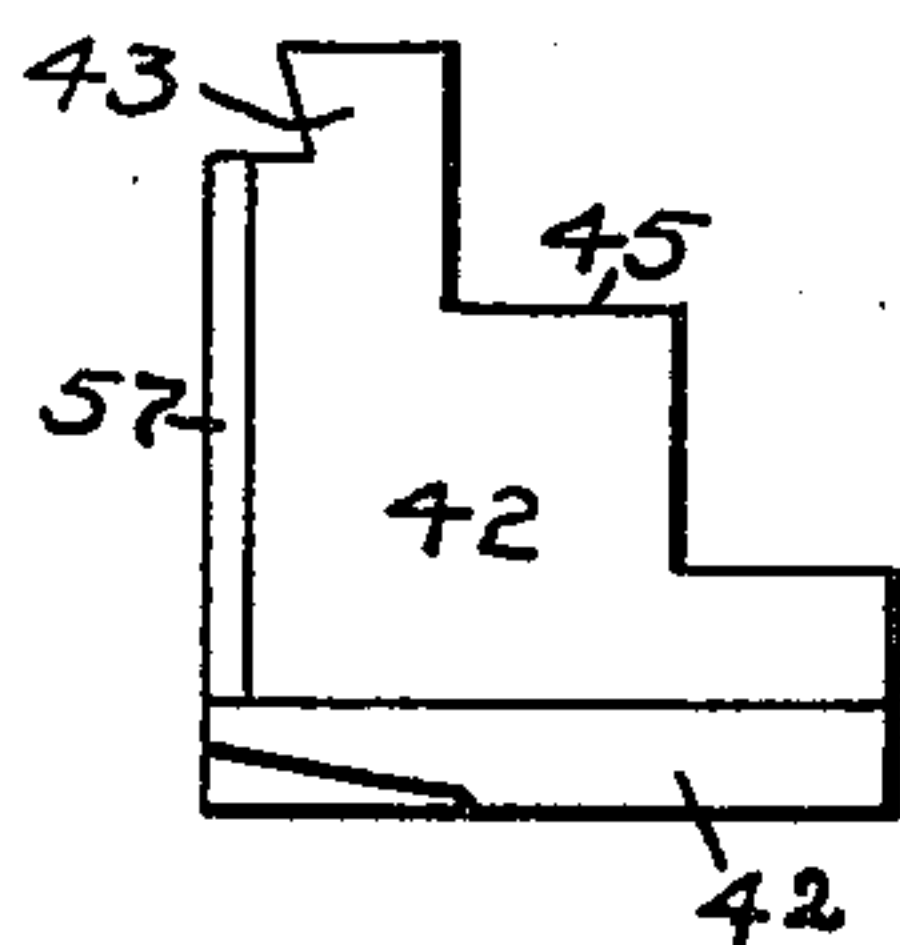


FIG. 8.

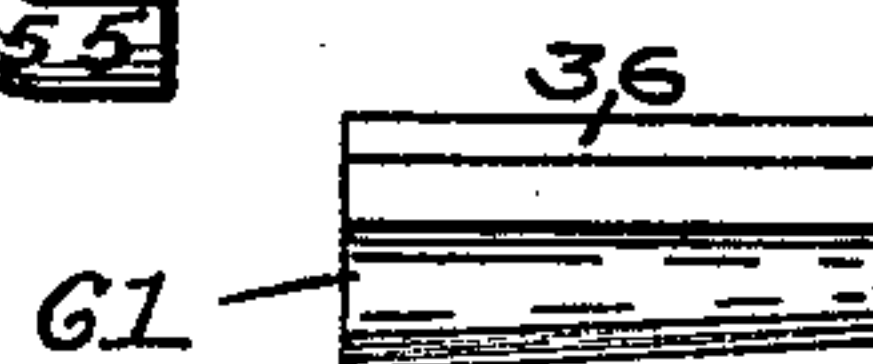


FIG. 2

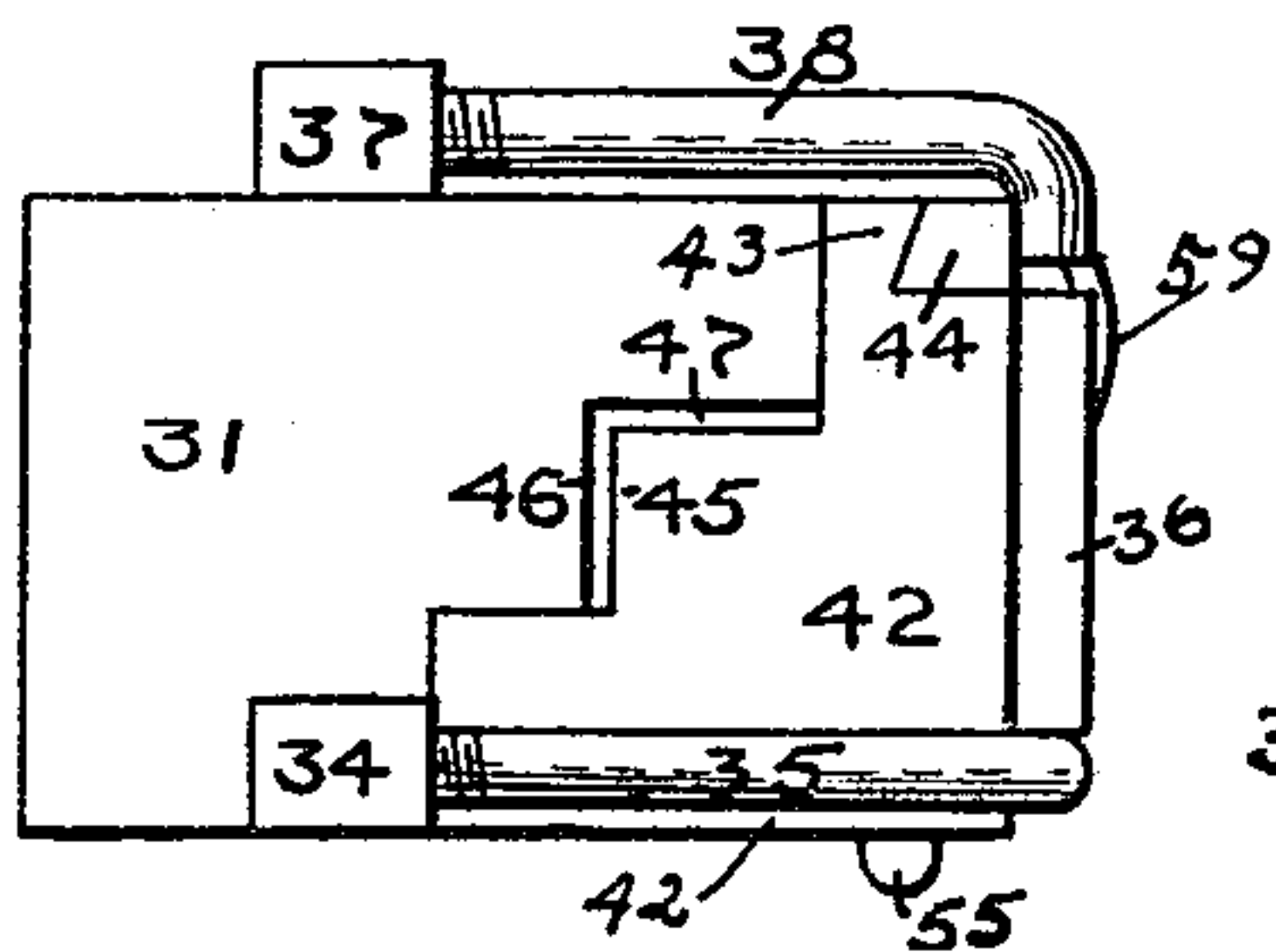


FIG. 3.

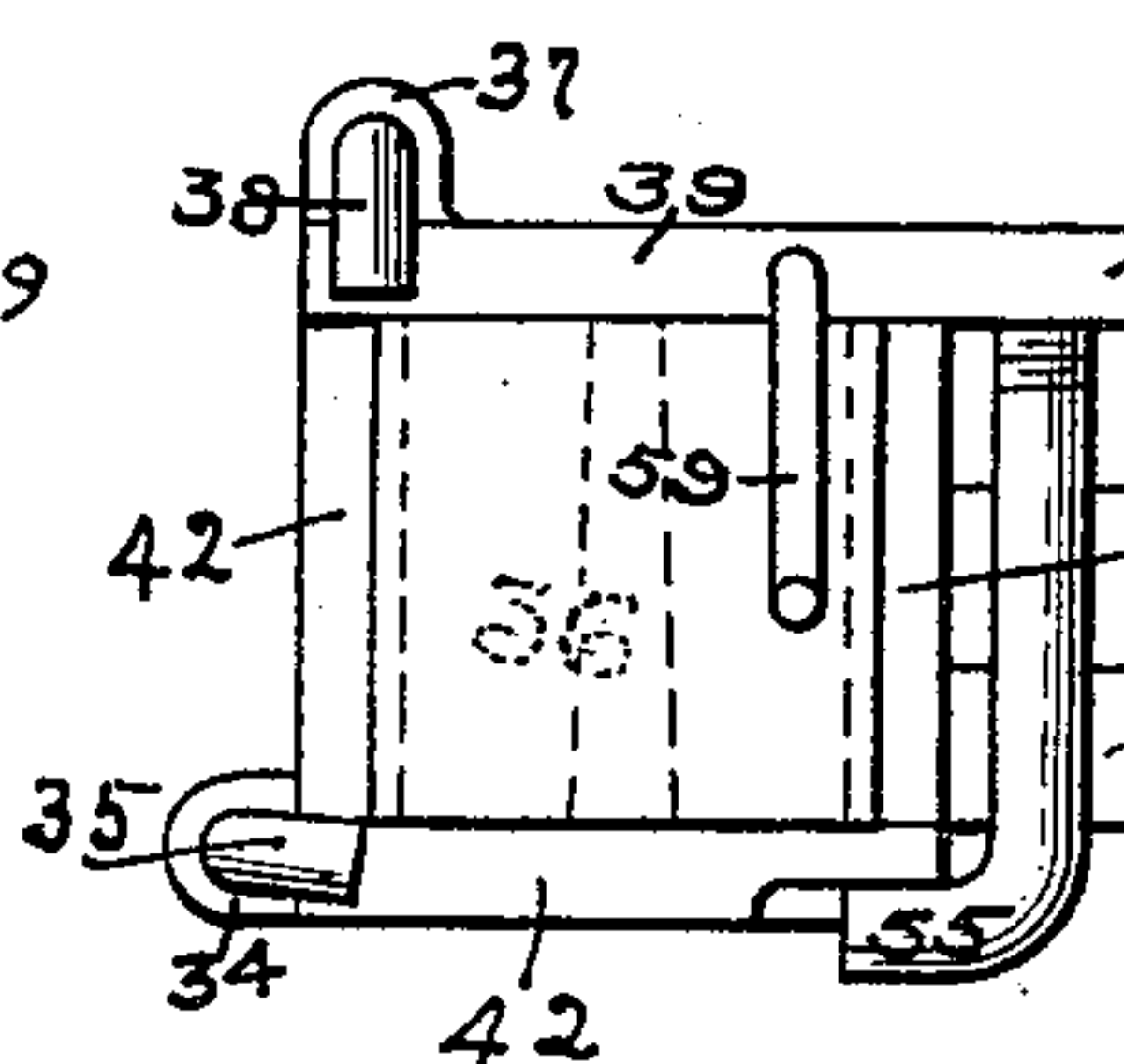


FIG. 4

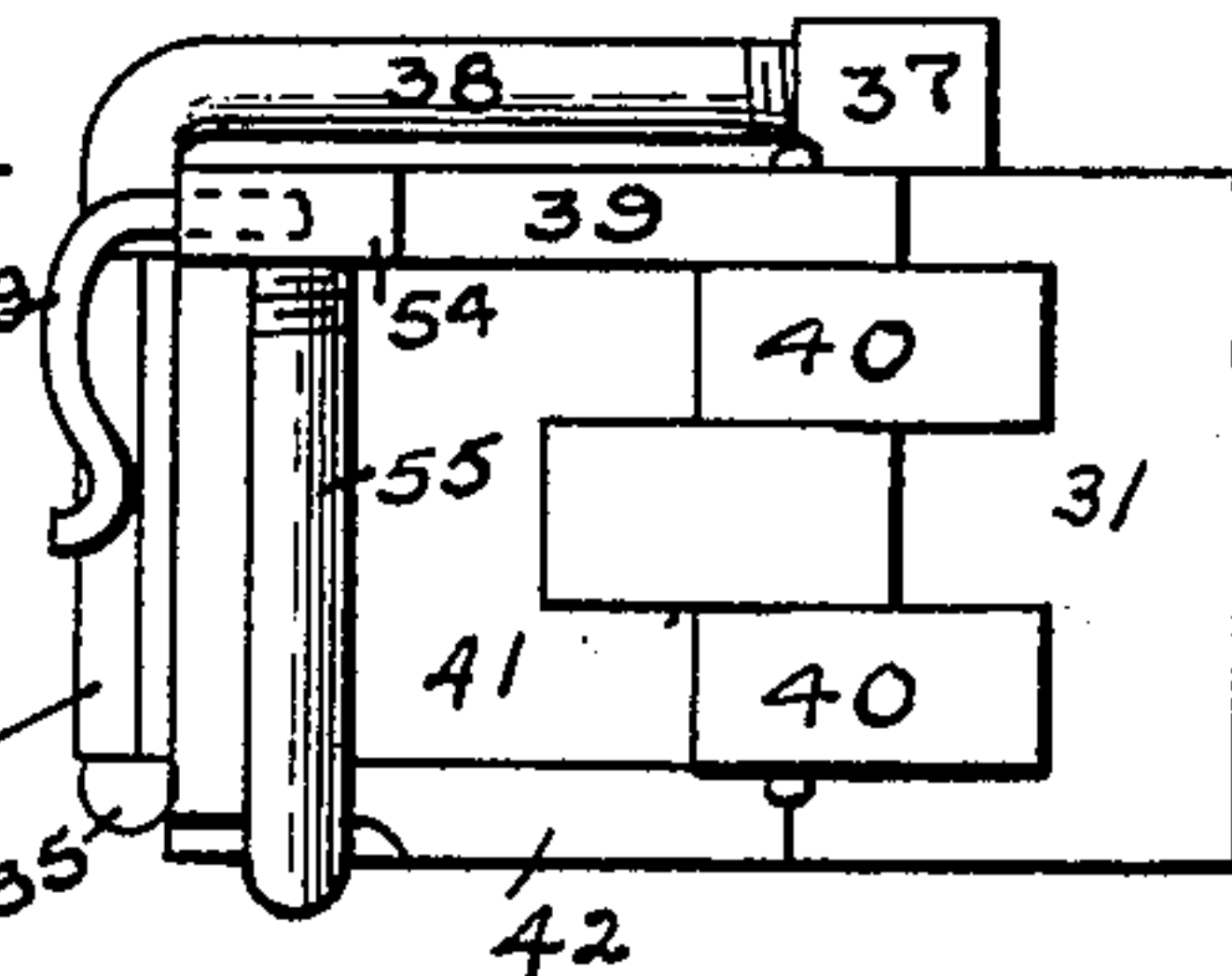


FIG. 5.

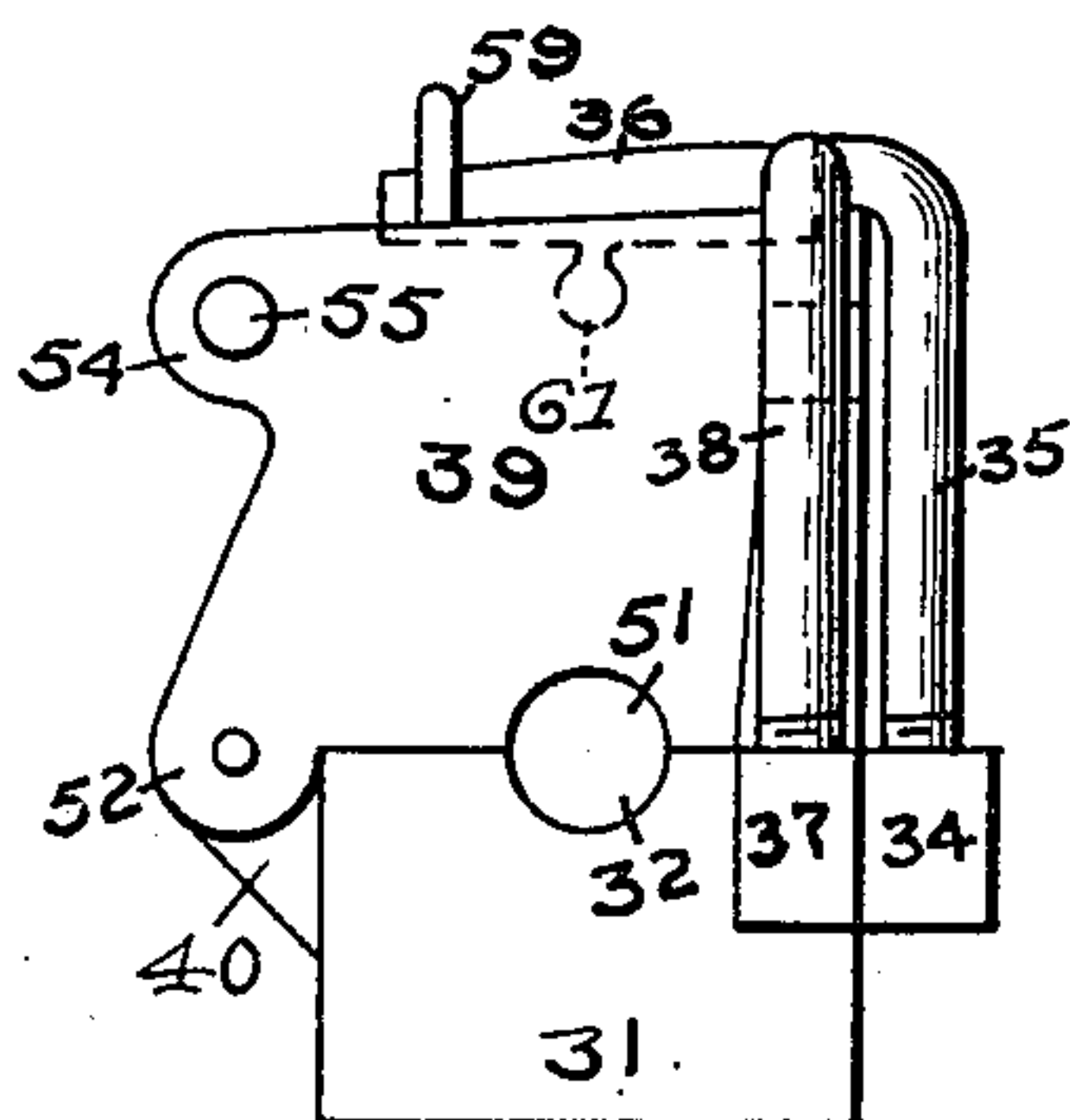
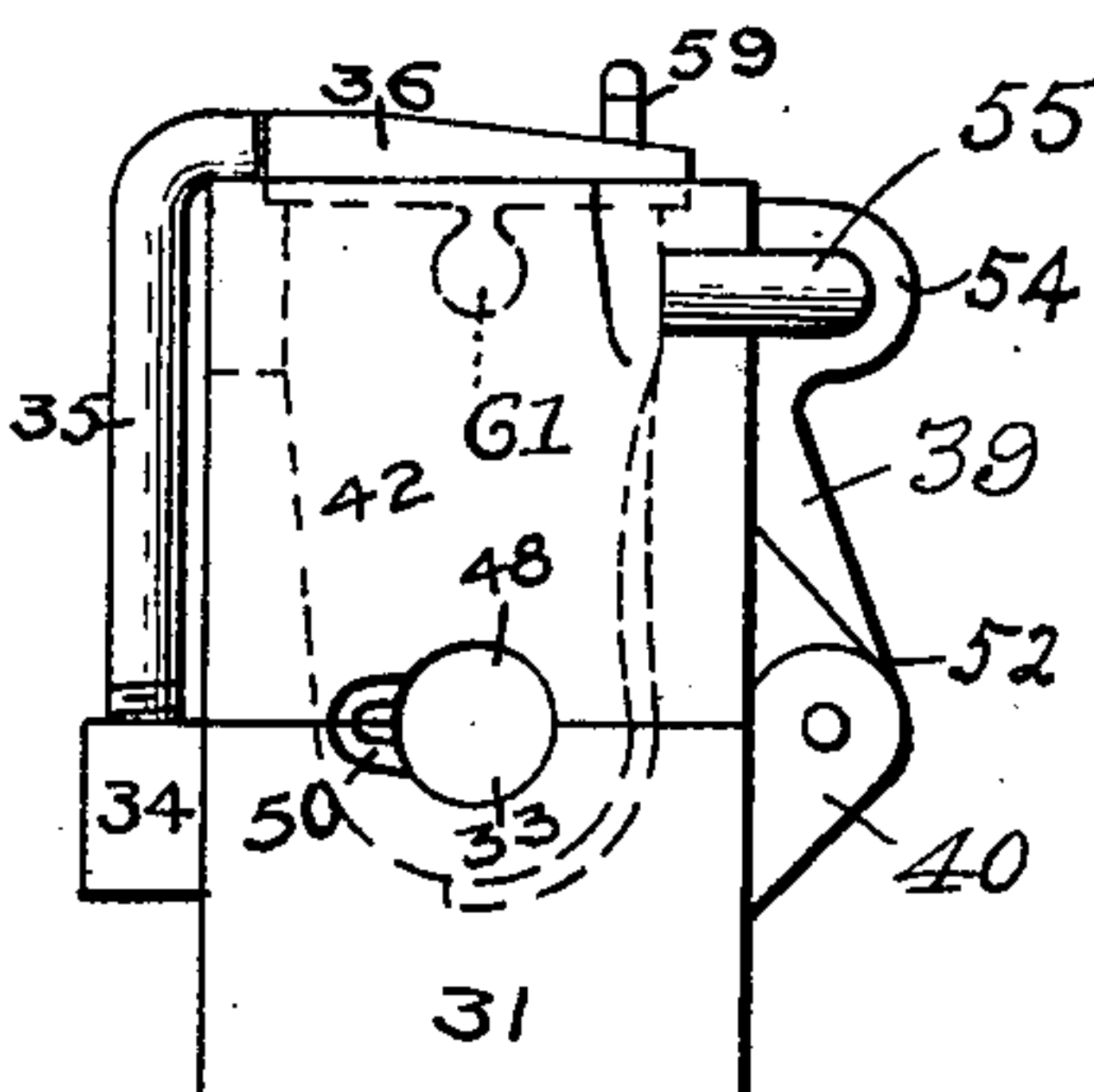


FIG. 6.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

GEORGE H. WILLIAMS, OF MARION, INDIANA.

## CASTING METALLIC BEDSTEADS.

SPECIFICATION forming part of Letters Patent No. 658,605, dated September 25, 1900.

Application filed September 18, 1899. Serial No. 730,955. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE H. WILLIAMS, of Marion, county of Grant, and State of Indiana, have invented a certain new and useful Improvement in Casting Metallic Bedsteads; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like numerals refer to like parts.

This invention relates to a chill-mold for casting the end rail and corner-post of a metallic bedstead together and providing means for supporting the side rails. With this mold the said parts are united and a casting provided at the union containing in one face a V-shaped groove to receive the end of the side rail. Said mold is so formed that all of its parts are separable or can be turned back away from the casting, so that in removing the casting from the mold the mold is in no wise injured by the hard metal of the casting with the chill employed herein.

The full nature of my invention will be understood from the accompanying drawings and the description following of one form of device embodying my said invention, and the scope of said invention will be understood from the claim following said description.

In the drawings, Figure 1 is a detailed view of the chill-mold for uniting the end rail to the corner-posts in the knockdown condition. Fig. 2 shows one side of the chill-mold when closed, being the side in which the end rail extends. Fig. 3 is an elevation of the end of the chill-mold when closed that forms the end of the casting in which the side rails are to be mounted. Fig. 4 shows an elevation of the side of said chill-mold that forms the outside of the casting. Fig. 5 is a top or plan view of said chill-mold. Fig. 6 is a bottom view of said chill-mold. Figs. 7 and 8 are detail views of parts of said mold.

In detail said chill-mold consists of a main part 31, that presents an even or smooth surface on its back, as is shown at the left-hand end of Fig. 2. It is centrally hollowed somewhat for receiving the casting, and the top and bottom thereof are provided with semicircular seats 32 and 33 to receive the corner-posts of the bedstead, as appears in Fig. 1. On the inside, near the lower portion thereof,

an ear 34 is secured to receive the hook 35, which holds the cap 36 in place when the chill-mold is closed. The cap 36 has a tapering projection 61 to form a socket in the casting. Said socket is for the purpose of receiving and holding a correspondingly-shaped projection on the end of the side rail of the bedstead to support said side rail and unite it with the ends of the bedstead. On the upper side at the left-hand corner an ear 37 is secured to receive the hook 38, that holds in place the upper hinged piece 39. On the outside of said chill-mold or right-hand side of the portion 31, as it appears in Fig. 1, there are a pair of ears 40, between which the outside piece 41 is secured, these two parts being hinged together by a pin. (Not shown.) The remaining portion of the inside and bottom is formed by the part 42, an inside view of which appears in Fig. 1. Said inside portion and bottom portion are formed at a right angle to each other. The outside view thereof appears in Fig. 2. The bottom portion thereof appears in Fig. 6. The side portion of the part 42 is provided with the notch 43 to receive the extension 44 from the piece 39. The side portion of the part 42 is also provided with a right-angled extension 45, that fits in the right-angled depression or recess 46 in the piece 31, to be seen in Figs. 1 and 2. A space 47 is provided between these two parts, as appears in Fig. 2, for the insertion of the end rail at right angles to the corner-piece and as close to said corner-post as it may be desired to have them placed relatively to each other when the bedstead is finished. The bottom portion of the part 42 is provided with a semicircular recess 48, as appears in Fig. 6, which registers with the recess 33 to form an opening for the reception of the corner-post. Adjacent to said opening in the chill-mold or forming an enlargement thereof is the opening 50, through which the metal is poured. The part 39 is also provided with the semicircular recesses 51 in one side thereof to register with the recess 32 in the portion 31, as appears in Fig. 5, to form the upper opening through said chill-mold for the corner-post. Said part 39 is provided with an ear 52, whereby it is hinged to the same pivot on which the part 41 is hinged. It is also provided with an ear 54, in which the hook 55 is



secured, which holds the bottom portion of the part 42 in place. The part 41 is provided with the step or seat 56, and the side of the part 42 is provided with a corresponding  
5 step or seat 57 to receive the cap 36, which is separate, fitting loosely in said seats, and is held in place by the hook 59, so mounted at one end in the upper edge of the part 39 as to be capable of being turned aside.  
10 This construction of chill enables the bedstead to be withdrawn from the chill-mold without injuring the chill. In such case the cap 36 and the part 42 can be removed, while the parts 39 and 41 can be turned back on  
15 their hinges out of the way, whereby the bedstead can be readily lifted out of the chill. In chill-molds heretofore employed for this purpose the construction, so far as I am aware, has been such that the chill-mold was  
20 scratched, worn, and injured by the withdrawal of the casting as it is made, as the casting had to be pulled out between inseparable parts of the chill-mold. This construction is also such that the parts of the bed-  
25 stead will not interfere with the removal of the casting from the chill-mold.

What I claim as my invention, and desire to secure by Letters Patent, is—

A chill-mold for uniting and forming the head or foot of a metallic bedstead, a chill 30 formed of a main portion 31 provided with ears 34, 37 and 40, the side 41 hinged to the ears 40, the side 39 hinged to one of the ears 40 and having the ear 54 thereon, the portion 42 provided with the extension 45 so formed 35 as to leave a passage-way between it and the main portion 31 for receiving the end rail, the cap 36 with an extension for forming the groove in the casting to support the side rail, the hooks 35, 38 and 55 rotatably secured at 40 one end to the ears 34, 37 and 54 respectively and the clamp 59, an opening through the top and bottom of said chill being left for the reception of the corner-rails of the bedstead.

In witness whereof I have hereunto affixed 45 my signature in the presence of the witnesses herein named.

GEORGE H. WILLIAMS.

Witnesses:

M. C. BUCK,  
V. H. LOCKWOOD.