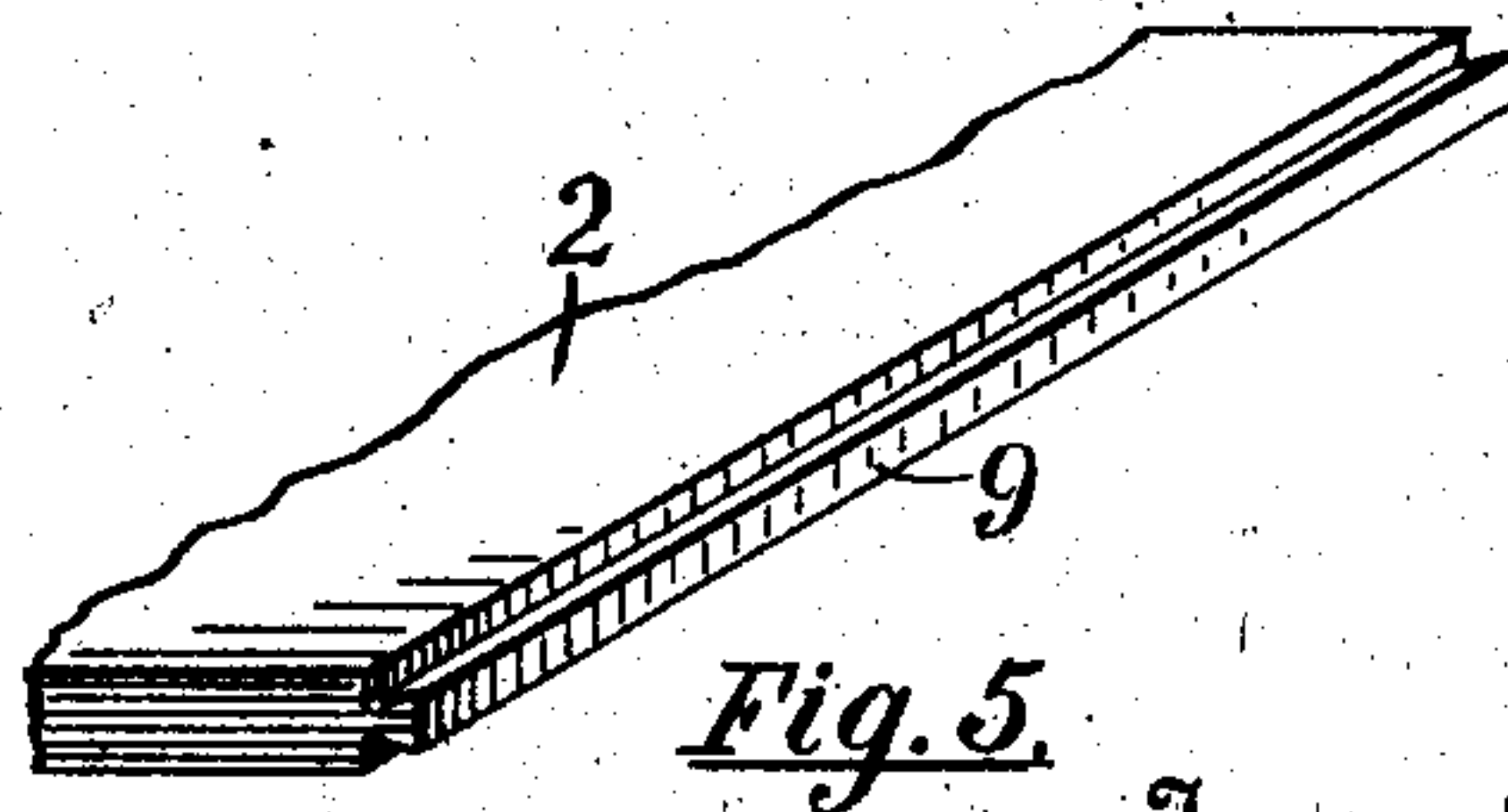
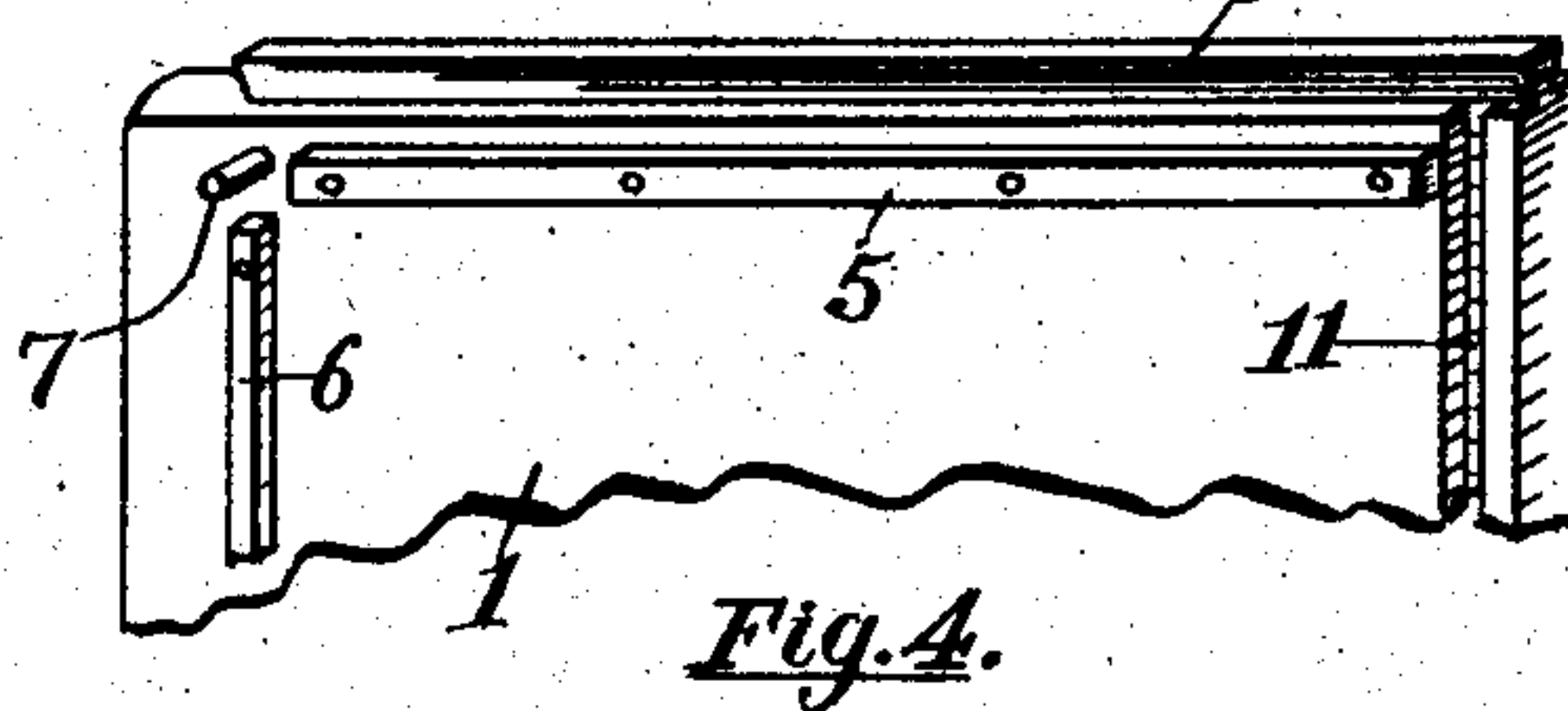
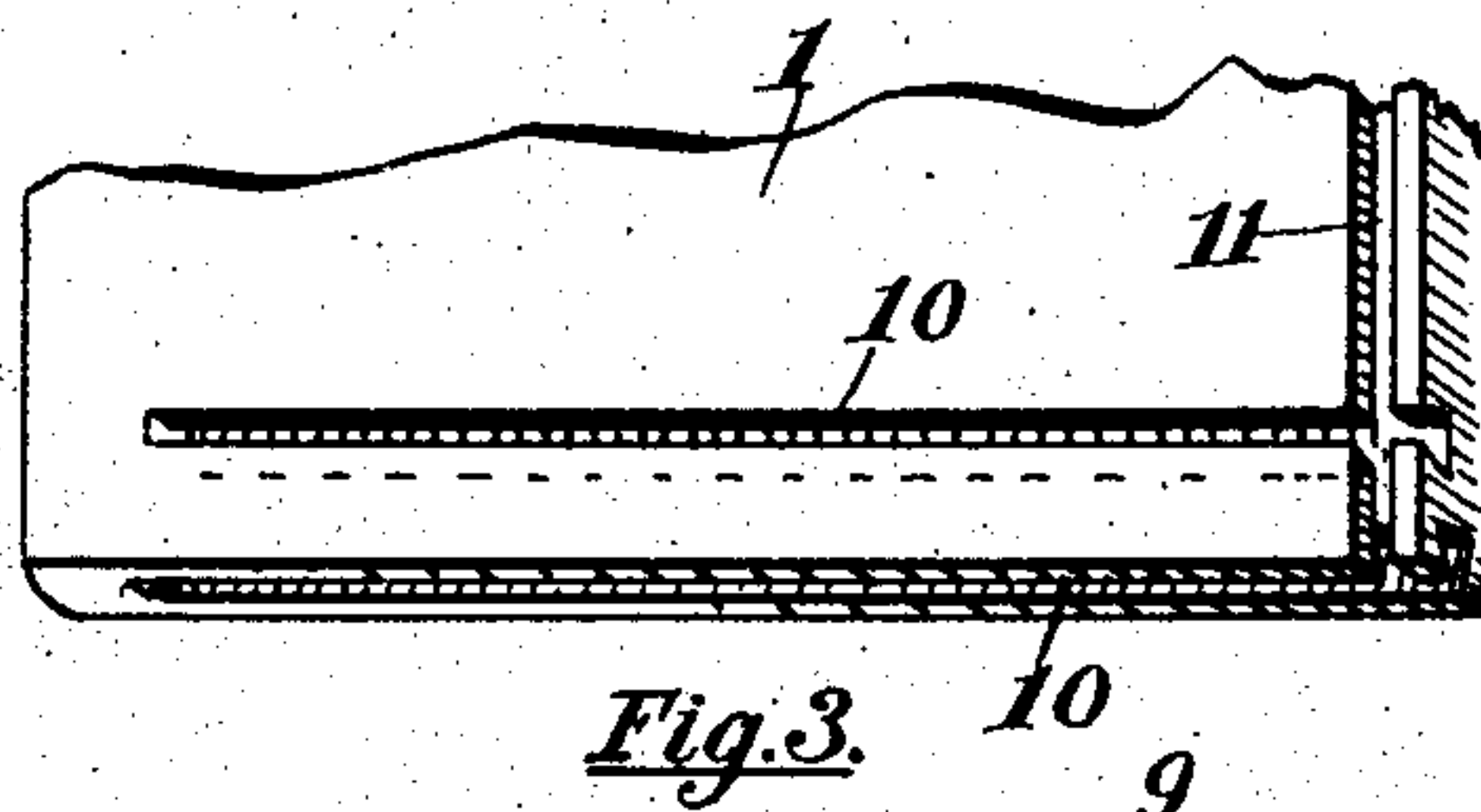
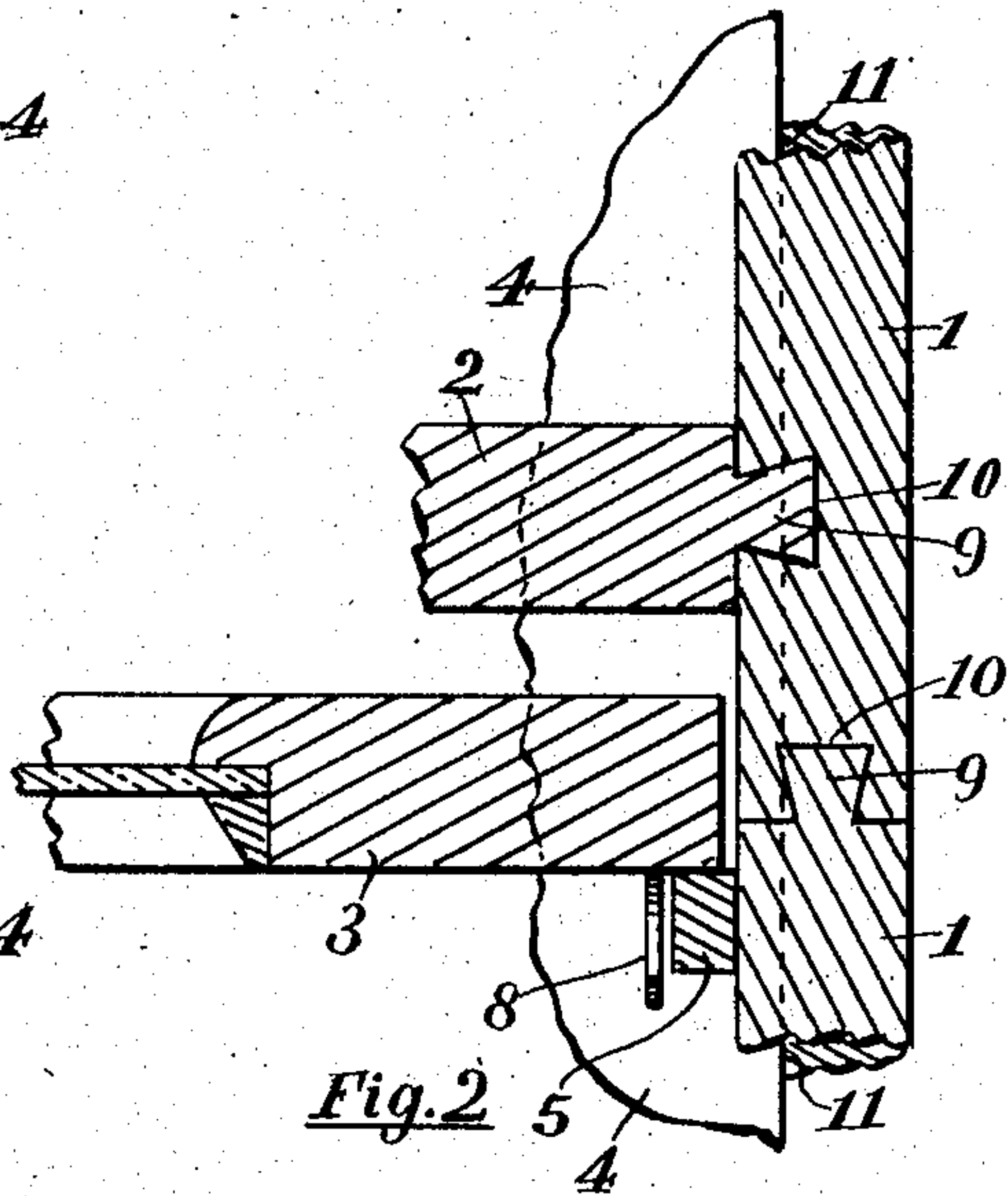
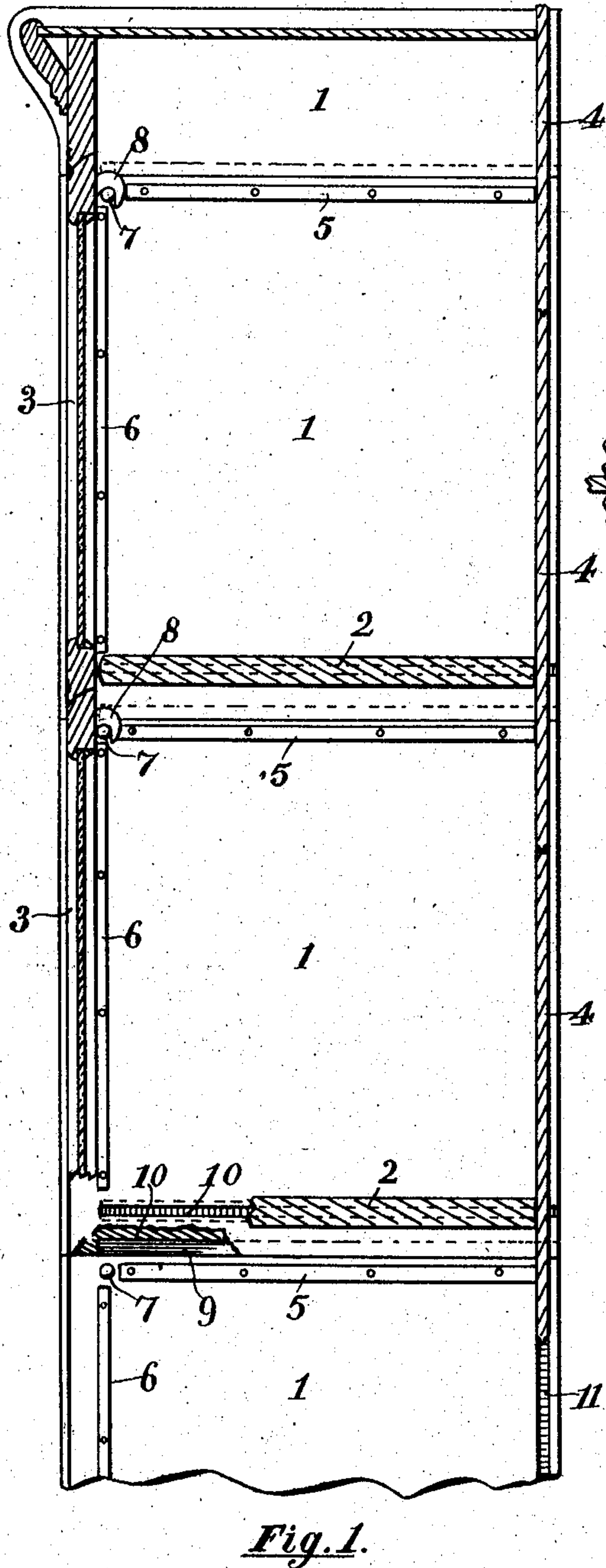


No. 786,940.

PATENTED APR. 11, 1905.

H. M. AMSDEN.  
KNOCKDOWN SECTIONAL BOOKCASE.  
APPLICATION FILED DEC. 10, 1904.



Witnesses  
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# UNITED STATES PATENT OFFICE.

HERO M. AMSDEN, OF GRAND RAPIDS, MICHIGAN.

## KNOCKDOWN SECTIONAL BOOKCASE.

SPECIFICATION forming part of Letters Patent No. 786,940, dated April 11, 1905.

Application filed December 10, 1904. Serial No. 236,317.

*To all whom it may concern:*

Be it known that I, HERO M. AMSDEN, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Knockdown Sectional Bookcases; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in knockdown sectional bookcases; and its object is to provide a simple and cheap device having various new and useful features hereinafter more fully described, and particularly pointed out in the claims.

My device consists, essentially, of end sections, shelves, back, and front sections, all detachably secured to each other, the end sections being attached to each other by slidably-interlocking fastenings, the shelves attached to the ends in like manner, and the back engaging and locking the shelves and ends in such manner as to effectually secure all the parts when assembled, and fronts provided with hooks engaging pivot-pins and adapted to turn from vertical to horizontal position and to run under the respective shelves, as will more fully appear by reference to the accompanying drawings, in which—

Figure 1 is a vertical section of a device embodying my invention, with parts broken away to show the construction; Fig. 2, an enlarged detail in vertical section, showing the interlocking fastenings and the position of the back; Fig. 3, a perspective of the lower end of one of the end sections detached; Fig. 4, the same of the upper end of the same, and Fig. 5 a perspective of one end of one of the shelves.

Like numerals refer to like parts in all of the figures.

The end sections 1 meet a short distance below each shelf and near the top of each front. These sections are detachably secured to each other by slidably-engaging fastening members, preferably consisting of a dovetail tongue 9 on the end of one section and a corresponding dovetail groove 10 in the end of

the other section. These tongues and grooves do not extend wholly to the front edge of the sections, thus leaving horizontal seams in the front edge of the sections. Near the bottom of each section 1 (except the upper or cap section) is a horizontal dovetail groove 10 in its inner side to receive a corresponding tongue 9 on the end of the shelf, and thus support and secure the shelf to the end section. This shelf is narrower than the end section, and the groove 10 does not extend wholly through to the front of the end section. The shelves do not extend as far as the end sections at the rear, and the end sections are provided with aligned vertical grooves 11 to receive the back sections 4, which back sections engage the rear edge of the shelves, and thus securely hold the same in place. Said back sections also extend across the seam or joint of the end sections, and thus securely lock the same in place. Thus when the ends, shelves, and back are assembled, the dovetail tongue and grooves connecting the ends of the end sections securely attach them to each other, and the back sections when inserted in the grooves 11 hold the shelves and ends at right angles and securely lock all the connecting fastenings.

The back sections 4 are superposed one above the other and have their adjacent edges connected by a tongue and groove and also extend vertically out at the top of the case, and thus shrinkage of the back will not open any seam, but the upper edge of the back will move vertically to accommodate whatever variations there may be in the width of the back sections. Secured to the end sections, near the top thereof, are suitable strips 5 to support the fronts in horizontal position when opened. Vertical strips 6 are also secured to the end sections to hold the fronts in a vertical plane when closed.

7 represents suitable pins projecting inward beyond the strips 5 and 6 and near the ends of the same. Hooks 8 are provided on the fronts to pivotally engage these pins, and thus pivotally support the fronts when closed and to stop the same when drawn outward.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—



1. In a knockdown sectional bookcase, end sections attached to each other by internally-enlarged grooves and tongues to fit said grooves and slidably engage the same, shelves  
5 connected to the end sections by internally-enlarged grooves and tongues to fit said grooves and slidably engage the same, said end sections also having alined vertical grooves for the back, and a back inserted in said grooves  
10 and locking the fastening members in place.

2. In a knockdown sectional bookcase, end sections connected by dovetail tongues and grooves and having alined vertical grooves near the rear edge to receive the back, shelves  
15 connected to the end sections by dovetail tongues and grooves, and a back inserted in the vertical grooves of the ends and engaging the rear of the shelves, and also extending across the joints of the ends, whereby the  
20 parts are all secured in place.

3. The combination of end sections having dovetail tongues and grooves to unite their adjacent upper and lower ends and also having dovetail grooves in their inner sides, said tongues and grooves extending from the rear  
25 edge of said end sections to near the front edge of the same, said ends also having alined vertical grooves to receive the back, shelves having dovetail tongues on their ends to engage the grooves in the end sections, and a  
30 back in the vertical grooves, said back engaging the rear edges of the shelves and extending across the joints of the end sections.

In testimony whereof I affix my signature in presence of two witnesses.

HERO M. AMSDEN.

Witnesses:

LUTHER V. MOULTON,  
GEORGIANA CHACE.