E. W. BISHOP.

CAN OPENER.

APPLICATION FILED DEC. 20, 1909.

970,170.

Patented Sept. 13, 1910.

Fig. 1.

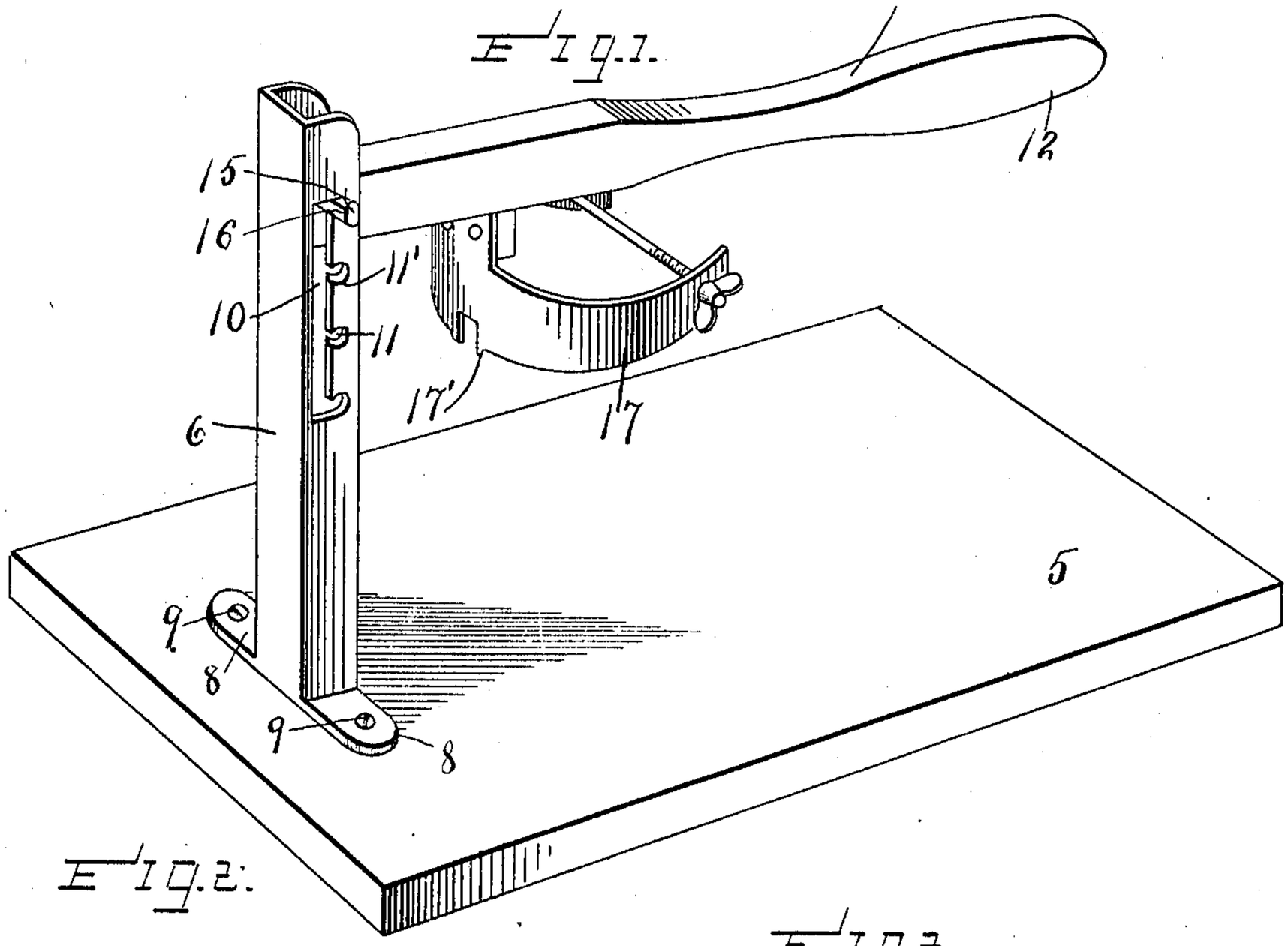
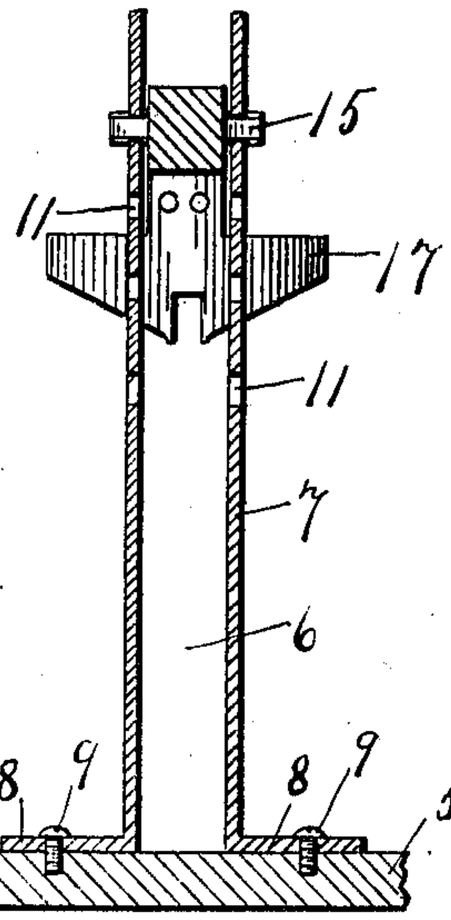


Fig. 2.

Fig. 3.



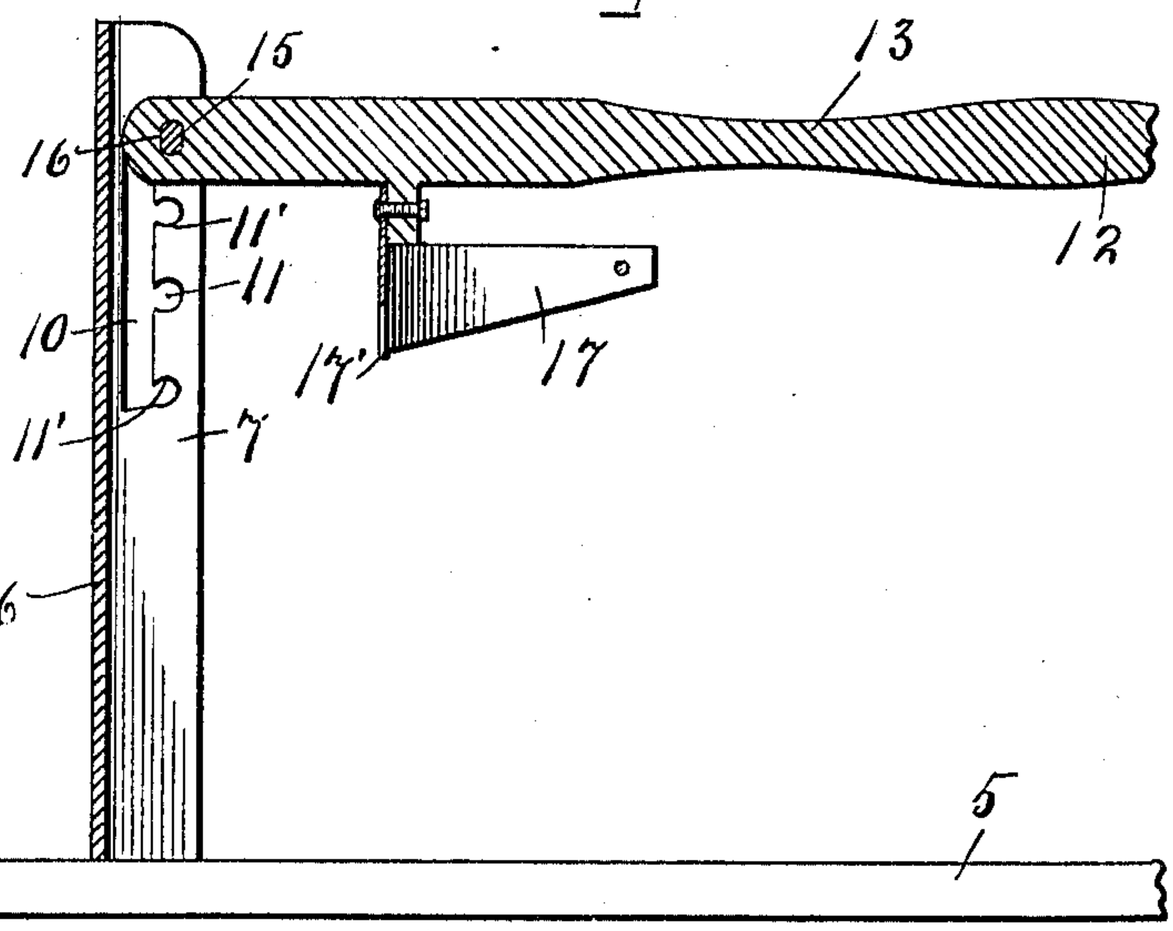
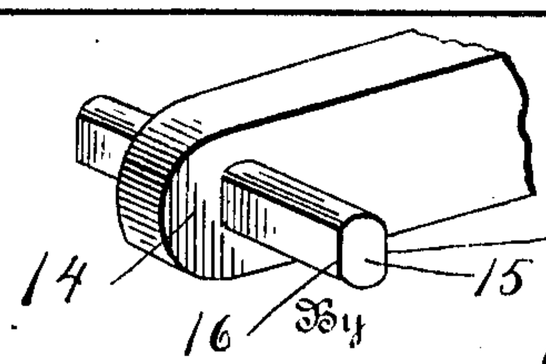


Fig. 4.



Witnesses:

Ed. C. Andrews.

E. M. Ricketts

Inventor

Elmer W. Bishop

By

Watson E. Coleman

Attorney

UNITED STATES PATENT OFFICE.

ELMER W. BISHOP, OF SEDRO WOOLLEY, WASHINGTON.

CAN-OPENER.

970,170. Specification of Letters Patent. Patented Sept. 13, 1910.

Application filed December 20, 1909. Serial No. 534,052.

To all whom it may concern:

Be it known that I, ELMER W. BISHOP, a citizen of the United States, residing at Sedro Woolley, in the county of Skagit and State of Washington, have invented certain new and useful Improvements in Can-Openers, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain new and useful improvements in can openers and more particularly to a device of that character illustrated in Patent No. 913,683, issued to me March 2, 1909, and has for its object to provide an improved supporting standard for the operating lever by means of which the same may be readily adjusted to operate upon cans of various heights.

A further object is to provide a very simple supporting means for the operating lever whereby the same may be very quickly adjusted and one which eliminates the use of fastening bolts and nuts.

With these and other objects in view, the invention consists of the novel construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawing, in which—

Figure 1 is a perspective view of a can opener of the character described illustrating my improvement; Fig. 2 is a vertical transverse section through the standard showing the lever in operative position; Fig. 3 is a central vertical longitudinal section of the device; Fig. 4 is a detail perspective view of one end of the operating lever.

Referring to the drawing 5 indicates a base which may be constructed of any suitable material and in any desired form. The standard 6 is secured upon this base adjacent to one end thereof. This standard is preferably of channel formation and the parallel side flanges 7 thereof are laterally disposed or flanged at their lower ends as shown at 8. Through these angular extensions the securing screws 9 extend. Each of the parallel channel flanges 7 is provided adjacent to its upper end with a vertical slot 10. These slots are disposed in transverse alinement, and a plurality of angularly extending recesses 11 communicate therewith. The recesses 11 extend forwardly and toward the outer edges of the flanges 7. It will be noted that these recesses are inclined slightly upward from the vertical slots 10 their edges describing a continuous curve, the greatest width of the recess being beyond the outer edge of the slots 10 as indicated at 11′.

The operating lever 12 is formed with a suitable handle portion 13 and the outer end thereof is disposed between the vertical flanges 7 of the standard. This end of the lever carries a transversely extending pin 15 which is adapted to be disposed in any one of the recesses 11 upon opposite sides of the extension 14. This pin upon opposite sides of the end of the lever is formed with the flattened faces 16. By providing these flat faces upon the pin it is considerably reduced in thickness, whereby when the faces 16 are positioned parallel to the sides of the slots 10, the lever may be readily moved up or down in these slots. These reduced portions of the pin 16 also allow of its ready movement into or out of any one of the various recesses 11. When the pin is disposed in the recesses 11 and is arranged in operative position as shown in Fig. 1, the flattened faces of the end portions of the pin will be vertically disposed, the cylindrical portions thereof being engaged between the points 11′ of the curved edges of the recesses. Thus the movement of the pin into the vertical slots 10 is prevented and the lever maintained in its desired position against accidental inward movement into the slots and also vertical movement therein which is the natural consequence of the release of the pivot pin from the recesses.

To the underside of the lever a substantially semi-circular cutting blade 17 is adjustably secured and is formed with the cutting edge 17′. The particular construction of this cutting member will not here be described as it is clearly set forth in my prior patent hereinbefore mentioned.

In order to adjust the operating lever so that cans of various heights may be positioned beneath the cutting blade, it is only necessary to swing the lever upwardly to a vertical position above the standard and between the channel flanges 7. The transverse pivot pin 15 may then be moved inwardly into the vertical slots 10 and the lever adjusted up or down so that the pin may be moved into another pair of the recesses 11 and swung downwardly for operation to its original position.

From the foregoing it will be seen that I have provided a very simple device which is admirably adapted for the purpose in view and whereby the operating handle may be very quickly and conveniently adjusted in the supporting standard. Its strength, durability, or efficiency is in no way impaired as the channel standard would preferably be formed of heavy sheet metal material rigidly supported upon the base and which may be produced at a minimum expense.

While I have shown and described what I believe to be the preferable embodiment of my invention it will be obvious that many minor modifications may be resorted to without departing from the essential features or sacrificing any of the advantages thereof.

Having thus described the invention, what is claimed is:

1. A device of the character described comprising a vertical supporting standard of channel cross sectional form, the parallel flanges of said standard having vertical alined slots adjacent to their upper ends, a plurality of lateral recesses in each of said flanges communicating with said slots, said recesses being upwardly inclined and having curved edges, and an operating lever adapted to be disposed between the channel flanges carrying a transversely extending pivot pin positioned in said slots and movable into said recesses, said pin having flattened faces disposed at right angles to the entrances to said recesses when the lever is in operative position.

2. A device of the character described comprising a vertical supporting standard of channel form in cross section, the parallel flanges of said standard having vertical alined slots adjacent to their upper ends and a plurality of laterally extending recesses communicating with said slots, said recesses extending at an angle to the slots and having continuously curved edges, and an operating lever positioned between the channel flanges carrying a transversely extending pivot pin, said pin being movable in the slots in the flanges and adapted to be positioned in any of the opposed recesses communicating with said slots, said pin having flattened faces normal to the length of the operating handle and disposed vertically in the recesses when the lever is in operative position, said lever being adapted to be positioned vertically whereby said pivot pin may be moved into the slots for vertical movement therein.

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

ELMER W. BISHOP.

Witnesses:

FRED BENTLEY,

T. J. MORROW.