March 31, 1964 E. E. ELLISTON 3,127,141

IRON SUPPORT

Filed Sept. 1, 1961

Fig. 1

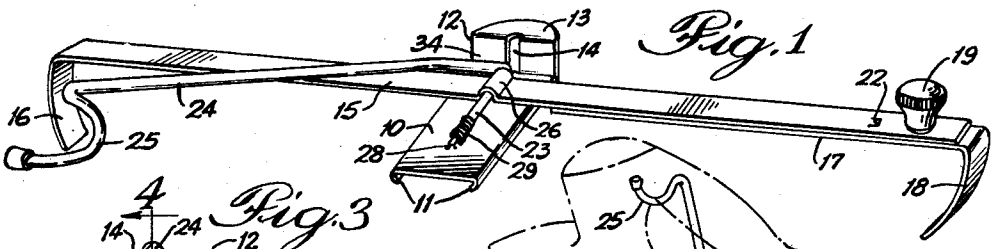


Fig. 3

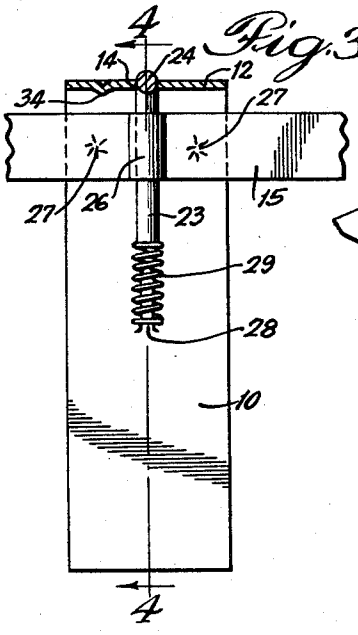


Fig. 2

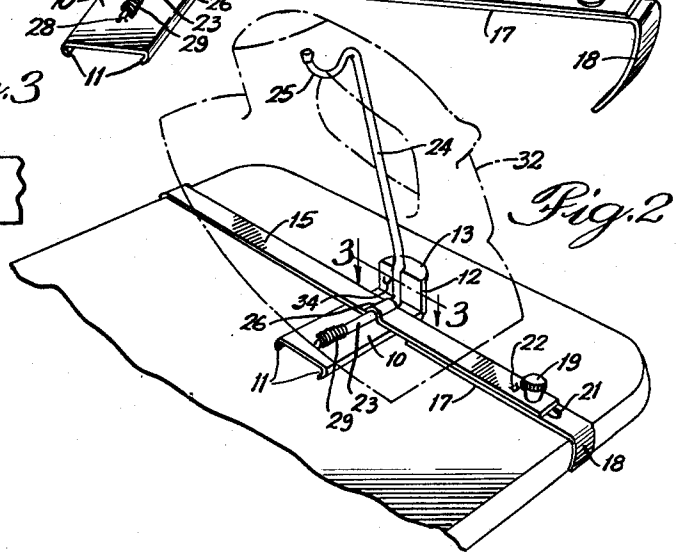


Fig. 4

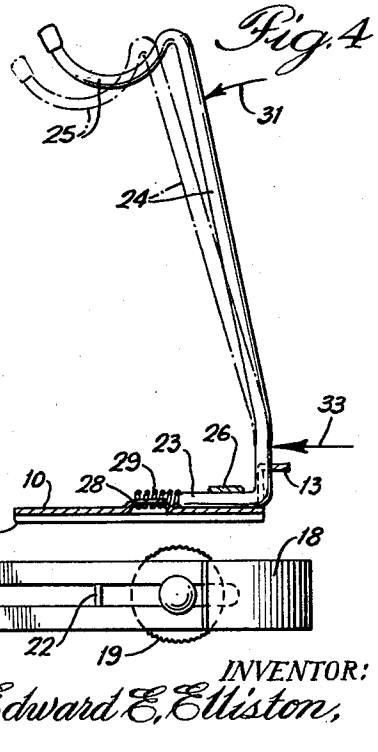
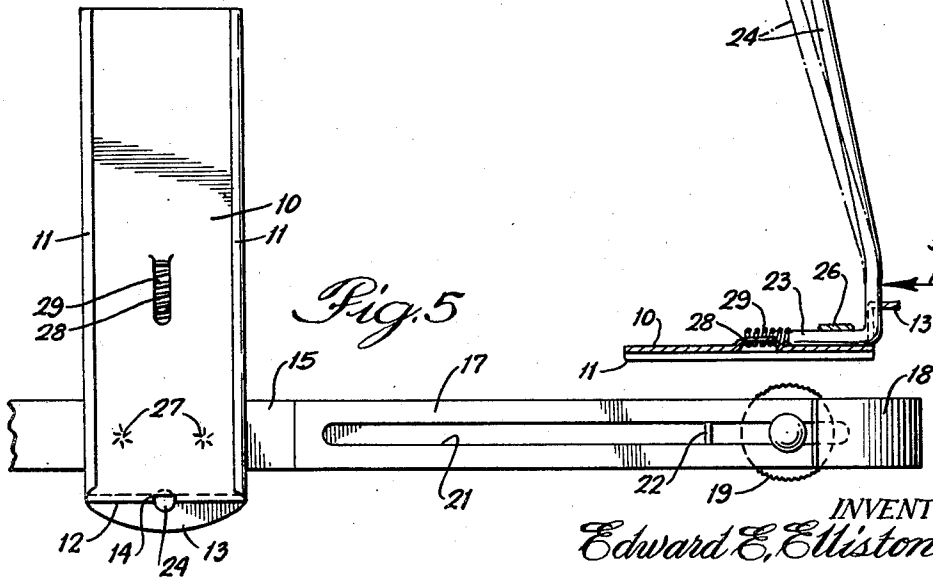


Fig. 5



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IRON SUPPORT

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3 Claims. (Cl. 248—117.6)

This invention relates to iron supports, and more particularly to supporting devices to be attached to a conventional ironing board to hold an iron spaced from the board when not in use.

It is one of the objects of the invention to provide an iron support which is permanently attached to a conventional iron board and which is adjustable from a stored position flat against the board to an erected position to support an iron above the board.

Another object is to provide an iron support which is securely latched in its erected position against accidental release but which can easily be released for folding to its stored position.

According to features of the invention, a flat plate is clamped to the ironing board and has a flange at one end formed with a central notch. A hook member has a base portion slidably and rotatably mounted on the plate and an upright supporting portion which is urged into the notch by a spring releasably to latch the hook member in its erected position. When the upright portion of the hook member is released from the notch by pressing it out of the notch, it can be colded flat against the ironing board for storage.

The above and other objects and features of the invention will be more readily apparent from the following description when read in connection with the accompanying drawing in which:

FIGURE 1 is a perspective view of an iron support embodying the invention;

FIGURE 2 is a perspective view illustrating mounting of the suport on an ironing board;

FIGURE 3 is an enlarged partial section on the line 3—3 of FIGURE 2;

FIGURE 4 is an enlarged section on the line 4—4 of FIGURE 3; and

FIGURE 5 is a bottom view of the iron support.

The iron support as shown comprises a flat plate **10** which may be stiffened and reinforced by side flanges **11** and which has an upwardly extending flange **12** at one end thereof. The upper edge of the flange **12** is bent over into a short horizontal flange **13** and a notch **14** is cut in the flange **12** extending partially into the horizontal flange **13**.

The plate is adapted to be secured to an ironing board by clamping means comprising an elongated metal strap **15** extending across the plate adjacent to but spaced from the end flange **12** and formed with a downwardly extending hook **16** at one end. A second similar strap **17** is slidable longitudinally of the strap **15** and is formed at its end with a hook **18**. The straps **15** and **17** can be locked in any desired relative position to each other by a clamping screw **19**. As best seen in FIGURE 5, the strap **17** is formed with an elongated slot **21** therein through which the clamping screw **19** extends so that when the clamping screw is tightened the two straps will be drawn frictionally together to prevent relative movement therebetween. A guiding projection **22** may be bent from the strap **15** to extend into the slot **21** to hold the straps in alignment.

The plate is adapted to support a hook member formed of a relatively stiff wire and having a base or foot portion **23**, an upright shank portion **24** at approximately a right angle to the foot portion and a hook **25** at its free end to receive an iron. The foot portion **23** is adapted to be mounted slidably and rotatably on the plate **10** for which purpose as shown the strap is formed with an

offset portion **26** defining with the plate an open ended socket through which the foot portion extends. The strap may be secured to the plate on opposite sides of the offfset portion **26** by welding as indicated at **27** or by other desired types of mechanical fastening means.

The shank portion of the hook member is normally urged toward the upright flange **12** and into the notch **14** to latch it in an upright position. For this purpose a short finger **28** is bent up out of the plate **10** with its end pointing toward the adjacent end of the foot portion **23**. A compression coil spring **29** is fitted over the finger as best seen in FIGURE 4 and engages the end of the foot portion **23**.

The iron support is attached to an ironing board as illustrated in FIGURE 2 by first loosening the screw **19** and slipping the hook **16** over one edge of the board. The strap **17** is then slid inward until the hook **18** hooks over the opposite edge of the board at which time the screw **19** is tightened to secure the unit firmly in place on the board.

For use the hook member is swung upward as shown in FIGURES 2 and 4 to project substantially vertically above the board and the plate **10**. In this position of the hook member the spring **29** will shift the foot portion toward the vertical flange **12** until the lower end of the shank portion **24** fits into the notch **14**. As will be apparent from FIGURES 3 and 4, the extension of the notch into the horizontal flange **13** is such that the lower end of the upright portion of the hook member will extend into the notch a distance approximately equal to its radius so that the adjacent portions of the flange **12** will engage it approximately on a diameter. Pressure on the hook member, therefore, has no tendency to slide it out of the notch, and it will remain firmly latched in its upright position.

It will be noted that in this position a pressure exerted on the hook member near its upper end, as indicated by the arrow **31**, will not slide the hook member out of the notch. A force applied at this point will tend to tilt the foot portion **23** in its socket so that it will bind and will not slide freely. Therefore, accidental pressure exerted on the hook member at its upper end portion will not release it from the notch. In this position an iron, as indicated in dotted lines at **32**, may be hung by its handle on the hook portion **25** to be supported thereby spaced from the ironing board. For use the iron handle may be grasped and lifted from the hook portion.

When it is desired to fold the hook portion for storing the ironing board, pressure may be applied at the lower portion thereof as indicated by the arrow **33** in FIGURE 4. A pressure at this point will cause the foot portion **23** to slide easily through the socket **26** against the spring **29** until the upright lower end of the supporting portion is free from the notch **14**. At this time the hook member can be folded over to a flat position as shown in FIGURE 1 where it will lie substantially flat against the ironing board. The ironing board may therefore be stored easily without the necessity of removing the iron support therefrom.

The hook member may be held in its stored position by forming a small projecting bump **34** on the flange **12**, as shown. When the hook member is folded to its flat stored position, it will snap over this bump and be held yieldingly thereby in that position in the manner of a spring detent.

While one emodiment of the invention has been shown and described in detail, it will be understood that this is illustrative only and is not intended as a definition of the scope of the invention, reference being had for this purpose to the appended claims.

What is claimed is:

1. An iron support comprising a flat plate adapted to

rest on an ironing board, means to clamp the plate to an ironing board, an upstanding flange at one end of the plate formed with a central notch therein, a hook member having a straight base portion and an upstanding support portion terminating in a hook to receive and support an iron, horizontal guide means on the plate aligned with the notch rotatably and slidably supporting the base portion, and a spring on the plate engaging the hook member and urging it toward the notch whereby when the hook member is at right angles to the plate the support portion thereof will be urged into the notch to latch it and can be moved out of the notch against the spring to fold parallel to the plane of the plate.

2. An iron support comprising a flat plate adapted to rest on an ironing board, an upstanding flange at one end of the plate formed with a central notch therein, a securing strap extending across the plate adjacent to but spaced from the flange and bent to define with the plate

an open ended guide socket aligned with the notch, a hook member having a short base portion fitting slidably and rotatably in the socket and a support portion extending from the end of the base portion adjacent to the flange and terminating in a hook to receive and support an iron, and a spring on the plate engaging the base portion and urging it toward the flange thereby to urge the support portion into the notch to latch it in an upright position.

3. The iron support of claim 2 in which the strap is formed at its ends with hook portions to engage opposite edges of an ironing board and secure the plate thereto.

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