

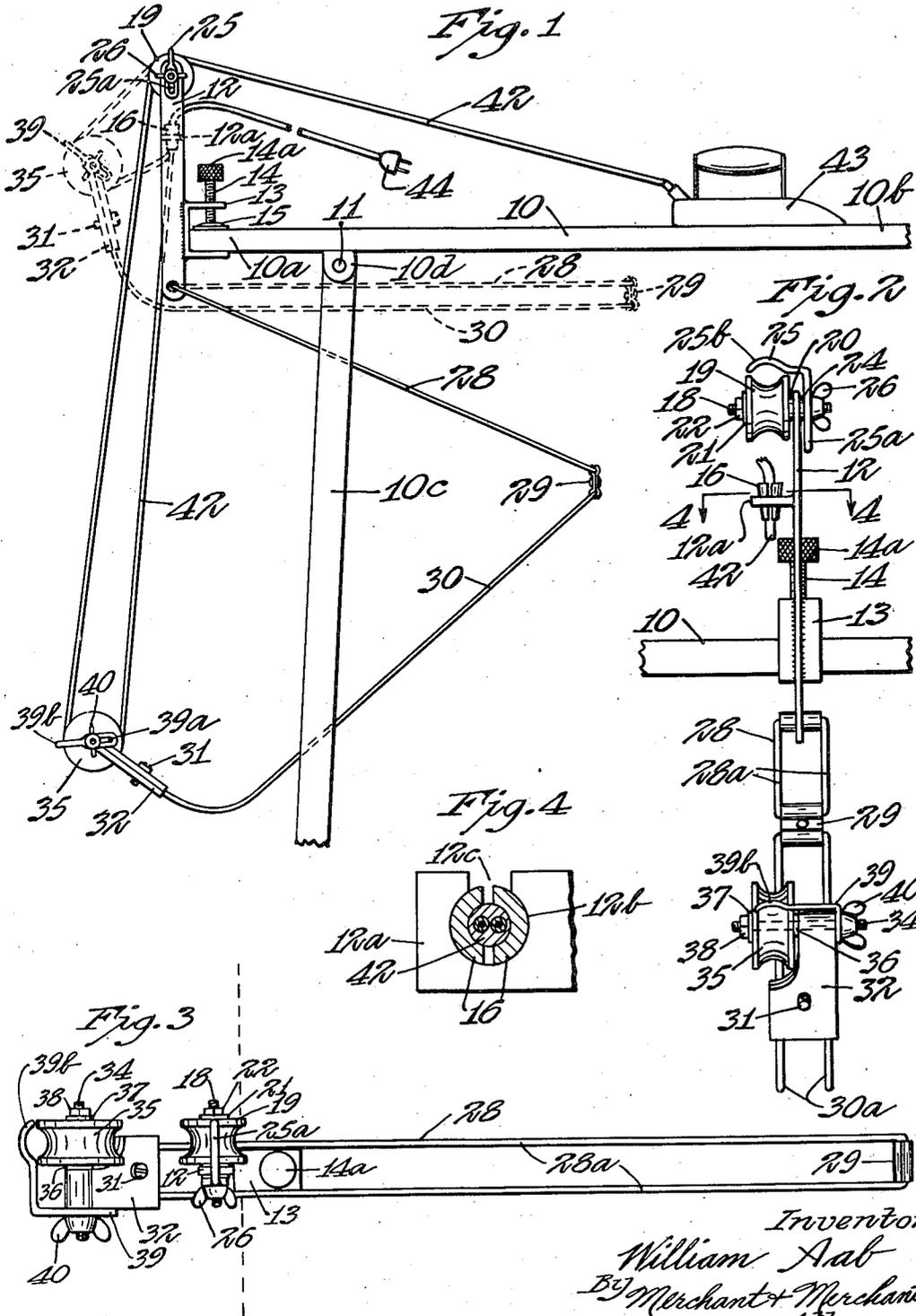
July 6, 1948.

W. AAB

2,444,800

CORD SUPPORTING DEVICE

Filed Aug. 22, 1945



Inventor  
William Aab  
By Merchant & Merchant  
Attorneys

# UNITED STATES PATENT OFFICE

2,444,800

## CORD SUPPORTING DEVICE

William Aab, New Ulm, Minn.

Application August 22, 1945, Serial No. 611,992

3 Claims. (Cl. 248-51)

1

This invention relates to a cord-supporting device, and particularly to a device for supporting a conductor cord containing electrical conductors. In operating various devices, such as a flat-iron, it is desirable to have some cord-supporting or holding means for supporting the conductor cord to keep the same out of the way of the operator.

It is an object of this invention to provide a simple and efficient means which may readily be attached to and detached from an ironing board for holding the cord so that it will not interfere with the work of the operator.

It is a further object of the invention to provide a cord-supporting device comprising a member adapted to be attached to an ironing board, the same having a pulley mounted thereon above the board and having a swinging arm mounted thereon below the board, which arm carries in one end a second pulley so that a conductor cord can extend from the flatiron or other article over the first mentioned pulley downwardly and around said second pulley so that the latter will be raised and lowered and said arm oscillated as the flatiron or other article is moved.

It is also an object of the invention to provide a simple and efficient cord-supporting means comprising a vertically extending member having means for quickly attaching the same to an ironing board, said member having a pulley mounted thereon above said board and having a cord-holding means thereon, said member also having a rigid link pivotally connected thereto below said board normally extending downwardly and longitudinally of said board, an elongated arm pivotally connected at one end to the other end of said link, said arm having a second pulley mounted thereon at its other end whereby a conductor cord attached to an iron may run over said first mentioned pulley downwardly and around said second mentioned pulley and be held in said cord-holding means.

It is more specifically an object of the invention to provide a device for supporting and keeping taut a conductor cord, said device comprising a vertically extending bar having a clamping means for attaching it to one end of an ironing board, said bar having a cord-holding means thereon and having a pulley mounted adjacent its upper end, a link pivotally connected to the lower end of said bar below said board and normally extending downwardly and toward the other end of said board, an elongated arm pivotally connected to the other end of said link and extending downwardly and toward the first mentioned end of said board, said arm having an upwardly

2

curved end portion, and a second pulley carried adjacent the end of said portion whereby a conductor cord attached to an iron on said board may pass over said first mentioned pulley downwardly and around said second mentioned pulley and upwardly to said cord-holding means, and said second pulley and arm will be moved upwardly and downwardly as said arm is reciprocated on said board.

These and other objects and advantages of the invention will be fully set forth in the following description made in connection with the accompanying drawings in which like reference characters refer to similar parts throughout the several views and in which:

Fig. 1 is a view in side elevation of the device, some parts being shown in different positions in dotted lines;

Fig. 2 is a view in end elevation as seen from the left of Fig. 1;

Fig. 3 is a top plan view; and

Fig. 4 is a horizontal section taken on line 4-4 of Fig. 2, as indicated by the arrows.

Referring to the drawings, an ironing board 10 is shown having the usual wide or rear end 10a and the narrow or front end 10b. A supporting leg 10c is shown for board 10, the same being secured between lugs 10d depending from the underside of said board, said leg being secured by a bolt 11. A member 12 is provided and while this might be variously formed, in the embodiment of the invention illustrated it is shown as a flat bar. Member 12 has secured to one side thereof, and in any suitable manner as by welding, a U-shaped bracket or clip 13 having parallel upper and lower sides, through the upper of which is threaded a screw 14 having a clamping head 15 at its lower end, a knurled cylindrical handle 14a at its upper end. Members 13 to 15 constitute a clamping means for attaching the member 12 to the ironing board 10. Member 12 has some distance below its upper end a laterally extending platelike lug 12a having a vertical aperture 12b extending therethrough tapering toward its lower end, and said lug is provided with a slot 12c extending from aperture 12b to one side of said lug. A frusto-conical member 16 is provided, the same having a cylindrical axial passage therethrough and also being divided along a diametral plane into two parts, as shown in Figs. 2 and 4.

Member 12 has secured therein adjacent its upper end a stud 18 and a pulley 19 having a grooved periphery is journaled on stud 18. A washer 20 is disposed between pulley 19 and member 12 and a washer 21 is disposed on stud 18 at the outer

side of said pulley and engaged by a nut 22 secured on the threaded end of stud 18. A washer 24 is disposed on stud 18 at the other side of member 12 and a pulley guard or cord retainer member 25 is provided having one side extending substantially parallel to member 12 and provided with a longitudinal slot 25a, through which stud 18 extends. A wing nut 26 is threaded on the outer end of stud 18 and engages member 25 to clamp the same in position. Member 25 is bent substantially at a right angle and has a portion 25b extending across the groove of pulley 19 and curved oppositely to said groove. It will be seen that member 25 can be moved longitudinally of member 12 and held in the desired position by wing nut 26. As shown in Figs. 1 and 2, pulley 19 is disposed at the upper end of member 12 and well above the top of the ironing board 10. The lower end of member 12 extends below the ironing board 10 and has pivotally connected thereto one end of a link 28 comprising parallel rods 28a, which extends downwardly and toward the end 10b of the board 10. The other end of link 28 is pivotally connected by a coupling 29 to one end of an elongated arm 30. Arm 30 also comprises spaced parallel rods 30a. Link 28 and arm 30 have bight portions at their adjacent ends and coupling 29 has open cylindrical ends which extend about said bight portions to pivotally connect members 28 and 30. Arm 30, adjacent its other end, is curved and bent through almost a right angle and has clamped thereto by a screw 31 a member 32. Member 32 is formed by a plate formed intermediate its ends to provide a loop at one end, through which extends a stud 34. Member 32 is cut away at one side, as shown in Figs. 2 and 3, to make room for a pulley 35 journaled on stud 34. Pulley 35 is similar to pulley 19. A washer 36 is disposed between pulley 35 on one side of member 32 and a washer 37 is disposed on stud 34 at the outer side of pulley 35, the same being engaged by a nut 38 threaded on the outer end of stud 34. A pulley guard or cord holder 39, similar to the guard or holder 25, has an arm extending along the outer side of member 32 and provided with a longitudinal slot 39a, through which stud 34 passes. A wing nut 40 is threaded on stud 34 and clamps member 39 in position against member 32. Member 39 is bent at right angles and has a portion 39b extending across the periphery of pulley 35 and curved oppositely to the bottom of the groove in pulley 35.

With the described structure, a conductor cord 42 attached to a flatiron 43 supported on board 10 can pass upwardly over pulley 19. Said cord will be disposed in a groove of pulley 19 and will be retained therein by member 25, particularly portion 25b thereof. Cord 42 will extend downwardly and around the lower side of pulley 35, the same being disposed in the groove of pulley 35 and retained therein by portion 39b of member 39. Cord 42 will extend upwardly from pulley 35 and to a suitable socket to which it will be connected by the usual plug 44. It is, however, desirable to hold cord 42 in stationary position between the plug 44 and pulley 35. For this purpose member 16 is provided. Cord 42 can be placed between the portions of member 16 when the latter is removed from lug 12a and member 16 then pushed downwardly into the aperture in lug 12a to clamp the portions or halves thereof against cord 42. Slot 12c is provided so that cord 42 can readily be removed from and into the aperture 12b. Member 32 has considerable weight and the outer end of arm 30 is thus

weighted and said arm will swing down and place considerable tension on cord 42 through pulley 35. This will hold the cord 42 taut between iron 43 and pulley 19. As iron 43 is reciprocated on board 10, pulley 35 will be raised and lowered by cord 42. As the iron moves toward the end 10b of board 10, pulley 35 will be lifted and arm 30 will swing about its connection to link 28. Link 28 will swing about its connection to bar or member 12 and if the iron 43 is sufficiently moved, pulley 35, arm 30 and link 28 could move to the position shown in dotted lines in Fig. 1. The cord 42 will extend from member 16 to the electrical socket used and can be adjusted so that it will be disposed away from board 10 and out of the way of the operator. The device can quickly be attached to or detached from the board by means of the clamping screw 14, and the device can be placed in the desired position with the cord 42 therein and detached from iron 43 and the electrical socket. When the device is again to be used it will only be necessary to clamp the same on the board and connect the ends of cord 42. The members 28 and 30 will be disposed beneath board 10 so that they will be entirely out of the way during the ironing operation. This will be clear from the showing in Fig. 2.

From the above description it will be seen that I have provided a simple and highly efficient cord-supporting means for a flatiron or other electrically operated member. The device is easily manipulated and operates effectively by gravity. The conductor cord is kept taut and out of the way of the operator and thus does not lie on the board 10 or it might be engaged and burned by the iron 43. The parts of the device are comparatively few and of simple construction and the same can be easily and inexpensively made. It is a simple and easy matter to place the device in operative position. The device has been amply demonstrated in actual practice and found to be very successful and efficient.

It will, of course, be understood that various changes may be made in the form, details, arrangement and proportions of the parts, without departing from the scope of applicant's invention, which generally stated, consists in a device capable of carrying out the objects above set forth, in the parts and combinations of parts disclosed and defined in the appended claims.

What is claimed is:

1. A cord-supporting device for an ironing board having in combination, a support constructed and arranged to be clamped to said board, a pulley carried above said board by said support, a link having one end pivoted to said support below said board, an arm having one end secured to the other end of said link, a second pulley carried by said arm adjacent its other end, means on said support for anchoring a conductor cord whereby a conductor cord attached to an iron may pass from said iron over said first mentioned pulley downwardly and around said second pulley and up to said means, from which it will pass to an electrical socket, said cord being held taut over said first mentioned pulley by the weight of said arm and second pulley.

2. A cord-supporting device for an ironing board having in combination, an upright support, means for readily attaching said support to and detaching it from said board, a pulley carried by said support above said board, an arm below said board extending longitudinally of said board, means for swingingly connecting one end of said arm to said support, and a second pulley carried

5

adjacent the other end of said arm whereby a conductor cord can pass from said iron over said first mentioned pulley downward and around said second pulley and upwardly to a point of attachment.

3. A cord-supporting device for an ironing board having in combination, a support adapted to be attached to an ironing board, a pulley carried by said support above said board, an arm swingingly connected at one end to said support below said board said arm being weighted at its other end, a second pulley mounted on said arm adjacent said latter end said second pulley being disposed below said first mentioned pulley whereby a conductor cord can pass from an iron on said board over said first mentioned pulley, down-

6

6

wardly around said second pulley and upward to a point of attachment and will be maintained taut between said iron and first mentioned pulley.

WILLIAM AAB.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

10

Number	Name	Date
1,456,093	Carlson	May 22, 1923
1,693,615	McJohn	Dec. 4, 1928
1,974,811	Gattinger	Sept. 25, 1934
2,190,108	Crammond	Feb. 13, 1940
2,254,955	Yett	Sept. 2, 1941

15