W. E. KOCH.

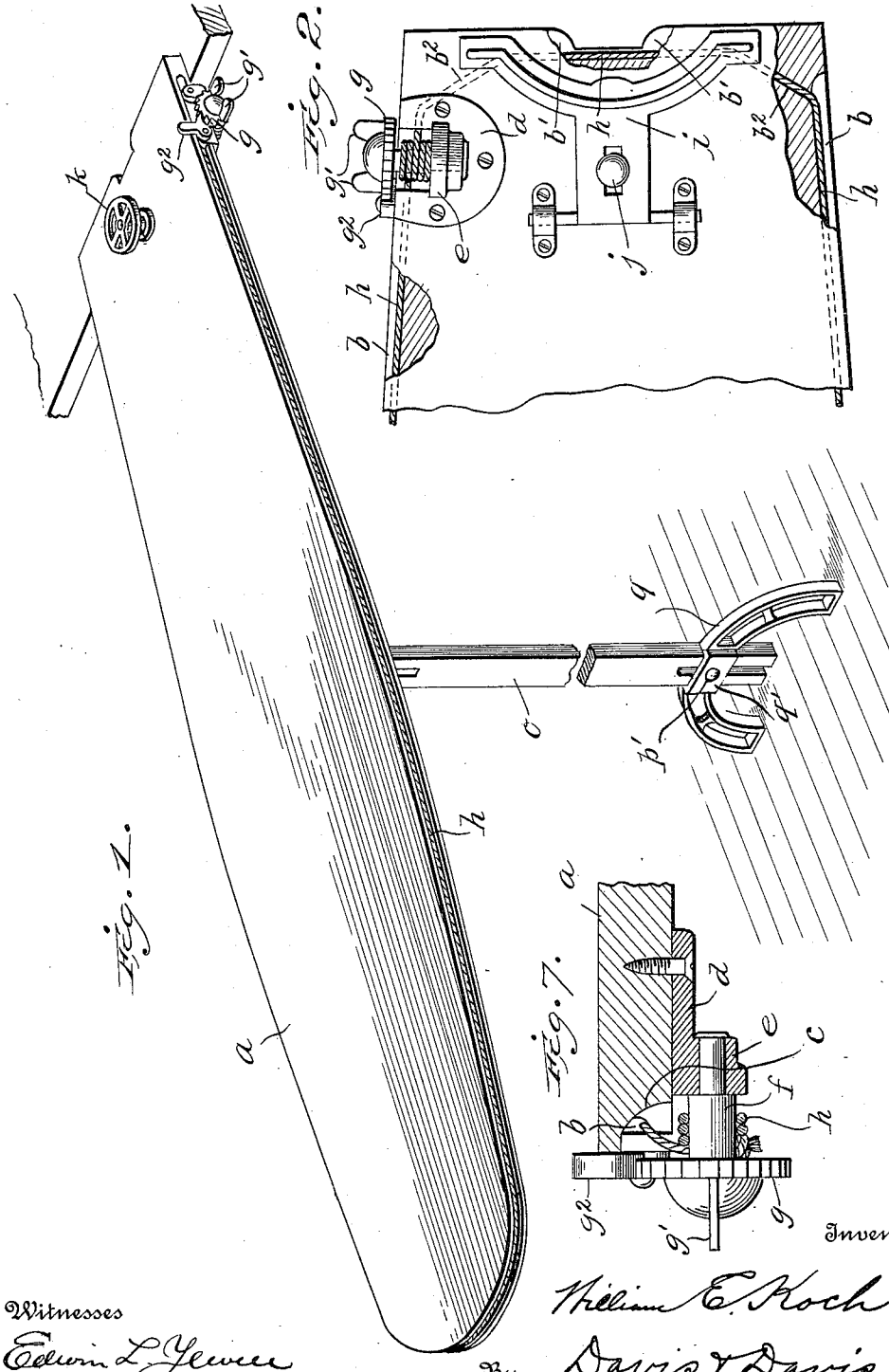
IRONING BOARD.

APPLICATION FILED MAR. 18, 1911.

1,017,155.

Patented Feb. 13, 1912.

2 SHEETS—SHEET 1.



Witnesses

Edwin L. Yewell

A. R. Bridges

Inventor

William E. Koch,

By Davis & Davis,

Attorneys.

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

W. E. KOCH.

IRONING BOARD.

APPLICATION FILED MAR. 18, 1911.

1,017,155.

Patented Feb. 13, 1912.

2 SHEETS—SHEET 2.

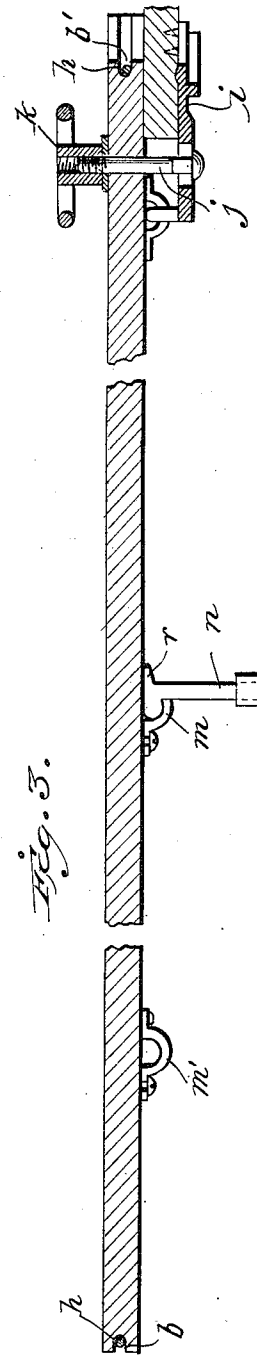
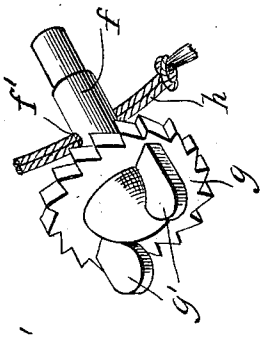


Fig. 4.



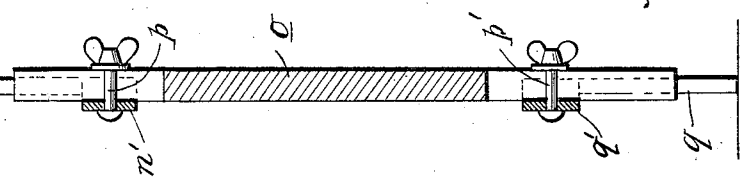


Fig. 3.

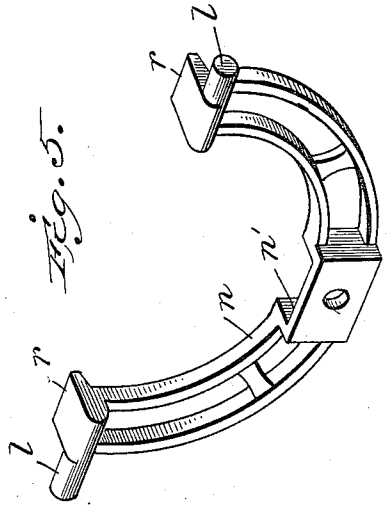


Fig. 5.

Fig. 6.

Witnesses

Edwin L. Jewell

C. R. Bridges

Inventor

William E. Koch,

By Davis & Davis,

Attorneys.

UNITED STATES PATENT OFFICE.

WILLIAM EDWARD KOCH, OF YORK, PENNSYLVANIA.

IRONING-BOARD.

1,017,155. Specification of Letters Patent. Patented Feb. 13, 1912.

Application filed March 18, 1911. Serial No. 615,190.

To all whom it may concern:

Be it known that I, WILLIAM EDWARD KOCH, a citizen of the United States, and a resident of York, in the county of York and State of Pennsylvania, have invented certain new and useful Improvements in Ironing-Boards, of which the following is a full and clear description, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of the ironing board showing it attached to a table ready for use; Fig. 2 is a bottom view of the inner end of the board; Fig. 3 is a vertical longitudinal sectional view; Fig. 4 is a detail perspective view showing the parts of the cord-winding device; Fig. 5 is a detail perspective view of the bracket for pivotally connecting the supporting leg with the board; Fig. 6 is a detail view of one of the clips in which the pivots of the bracket are journaled; and, Fig. 7 is a vertical sectional view taken longitudinally through the winding mechanism.

The object of this invention is to improve and simplify the type of ironing-board covered by patent to Alexander T. Lutz, No. 973,949, granted Oct. 25, 1910.

Referring to the drawings by reference characters, *a* designates the ironing-board in the opposite side edges and outer rounded edge of which is formed a groove *b* which terminates at the opposite sides of the board near the inner straight edge thereof, the ends of this groove being connected with the ends of a groove *b'*, extending partly along the inner straight edge of the board, by diagonal passages b^2 through the corners of the board, as shown in Fig. 2. At one end of groove *b* the edge of the board is cut away to form a recess, as shown at *c*, and a plate *d d* is secured to the bottom of the board at this point, said plate being provided with a pair of lugs *d'* which extend upwardly into the recess *c* and being cut away between said lugs to uncover said recess. The plate *d* is provided with a projection *e* in which is journaled the reduced inner end of a short shaft *f* on the outer end of which is formed a ratchet-wheel *g* provided with a pair of wings or projections *g'* on its outer face to permit the ratchet wheel and shaft to be rotated.

Working in grooves *b* and *b'* and passages b^2 is a cord or wire *h* for removably clamping the ironing cloth or blanket against the upper surface of the board *a*. The ends of this cord or wire *h* are passed through a hole *f'* through the shaft *f* and knotted together (as shown in Fig. 4) so that the cord may be quickly wound or unwound upon the shaft, the space formed by cutting away the board at *c* and the plate between the lugs *d'* affording room for winding the cord upon the shaft between the projection *e* and the inner face of the ratchet-wheel *g*. A gravitating pawl g^2, pivotally connected with one of the lugs *d'*, normally engages the ratchet-wheel *g* and locks the shaft *f* against unwinding, this pawl being provided with a suitable thumb-piece or handle so that it may be held out of action when the shaft is turned to loosen the cord. It will be observed that by the foregoing mechanism an ironing cloth or blanket may be securely and smoothly clamped to the upper face of the board and that it may be readily shifted or removed by simply loosening the clamping cord.

To enable the inner end of the board to be removably secured to the edge of a table or other suitable support, a clamping jaw *i* is pivotally attached to the under face of the board at its inner end, which jaw is operated by a threaded bolt *j* which passes up through a slot in said jaw and a hole in the board and has its upper end threaded in the internally-threaded sleeve of a hand-nut *k*. The shank of the bolt *j* is squared where it passes through the slot in the jaw to prevent rotation of the bolt when the hand-nut is turned to operate the jaw.

To support the outer end of the board I provide an adjustable leg or support preferably constructed as shown in the drawings. Pivotally hung on transverse pivots *l* journaled in clips *m* suitably secured to the bottom of the board is a curved bar *n* having a recess *n'* at its center in which the slotted upper end of a vertical bar *o* is adjustably clamped by means of a bolt *p* passing through a hole in the back wall of said recess and the slot in said bar and having a winged clamping nut at its outer end. The lower end of the vertical bar *o* is also provided with a longitudinal slot and adjustably clamped in a recess *q'* at the center of an arched bar *q* by a bolt and clamping nut *p'* similar to the bolt *p*, the ends of the arched bar *q* being turned downwardly to form feet which rest upon the floor. The pivots *l* on which the leg is hung are offset

and each end of the curved bar *n* is provided with a horizontal projection or lug *r*, whereby the leg is held in an upright position when the board is in use and may be folded up against the bottom of the board when not in use. An additional pair of clips *m'* (similar to the clips *m*) may be provided near the outer end of the board for holding the pivoted leg to afford a firmer support for the board when used in ironing garments that do not have to be slipped over the outer end of the board while being ironed. To enable the leg to be used interchangeably with either pair of clips, one clip of each pair is constructed (as shown in Fig. 6) with one closed and one open eye through which the fastening screws pass, so that the clip may be turned to release one of the pivots *l* and permit the leg to be readily removed. It will be observed that with this leg structure a wide range of adjustment is obtained and that the leg may be folded up against the bottom of the board for convenience in transportation and storage and may also be readily shifted to different points along the board to provide the maximum firmness and stability when using the board for different kinds of work.

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

1. In combination with an ironing-board having grooved edges, a stub-shaft journaled at one side of the board, a cord extending entirely around the edges of the board and lying in said grooves and having its opposite ends brought together from opposite directions and secured to said stub-shaft and wound thereon in opposite directions, and means for rotating said stub-shaft and locking it against rotation.

2. In combination with an ironing-board having a groove extending around its outer end and along its side edges to points near its inner end, a groove extending partly along the inner straight edge of the board and diagonal passages through the corners of the board connecting the ends of said grooves, of a plate secured to the bottom of the board at one side thereof and provided with a depending projection, a stub-shaft having its inner end journaled in said projection and its outer end extending outwardly to the edge of the board, a cord extending around the edges of the board in said grooves and passages and having its opposite ends coming from opposite directions secured to said stub-shaft, and means for rotating the shaft and locking it against rotation.

3. In combination with an ironing-board having a groove extending around the edges thereof, a plate secured to the bottom of the board at one side thereof and having a depending projection, a stub-shaft having its inner end journaled in said projection and its other end extending outwardly to the edge of the board, a ratchet-wheel secured on the outer end of said shaft, means for rotating the shaft and ratchet-wheel, a pawl pivotally mounted on said plate and adapted to engage the ratchet wheel to lock the shaft against rotation, and a cord extending around the edges of the board in said groove and having its opposite ends coming from opposite directions passed through a hole in the stub-shaft and knotted together.

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

WILLIAM EDWARD KOCH.

Witnesses:
NOAH C. MAY,
JOHN C. DEELED.