

No. 700,054.

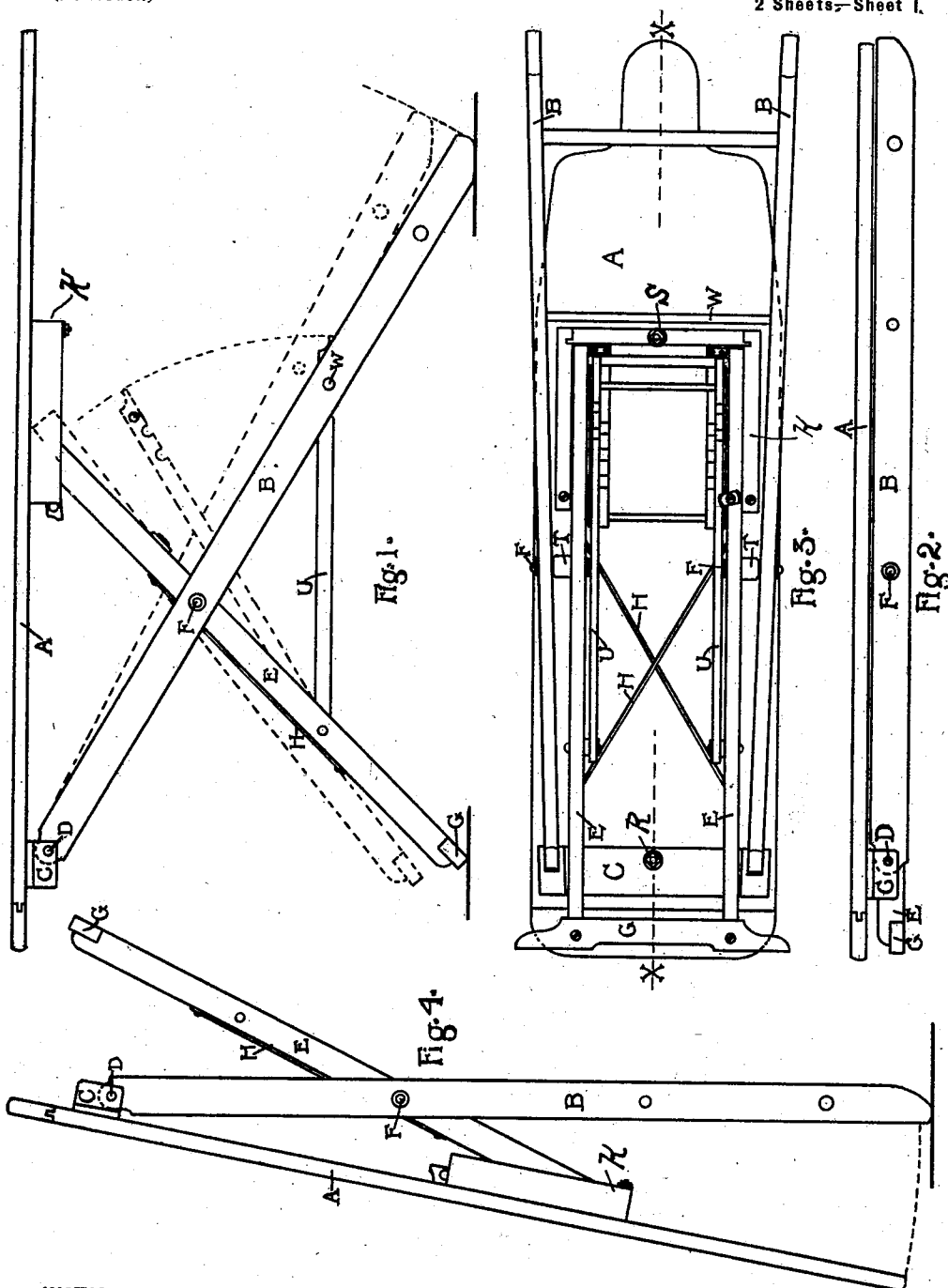
Patented May 13, 1902.

W. E. KNAPP.
FOLDING IRONING TABLE.

(Application filed June 17, 1901.)

(No Model.)

2 Sheets—Sheet 1.



WITNESSES:

James B. Davies.
Elizabeth J. Phillips.

INVENTOR.

William E. Knapp
BY Edward Tappan
his ATTORNEY.

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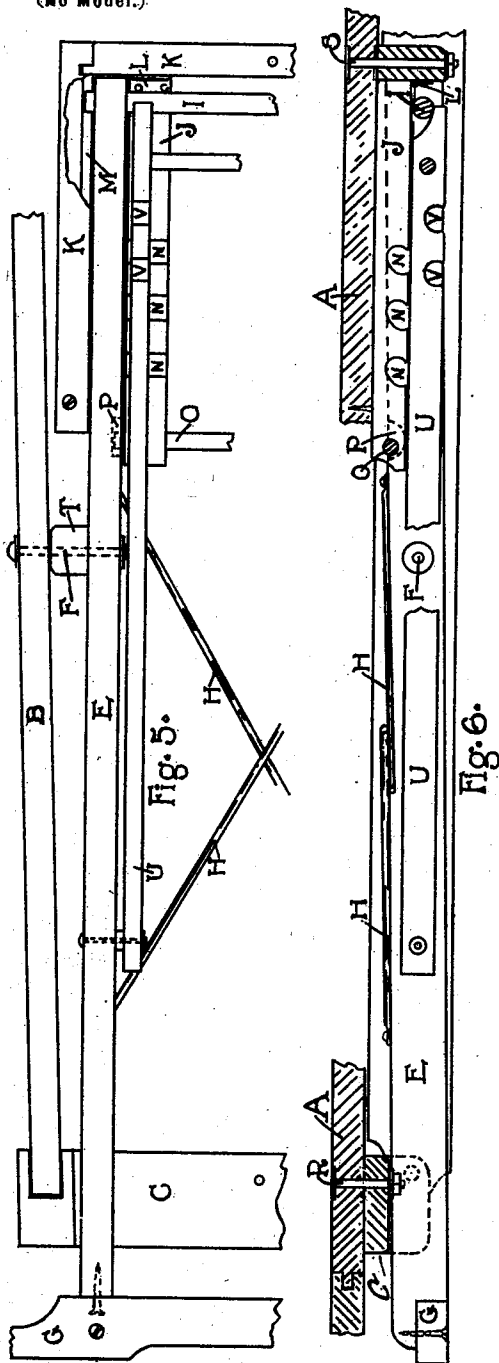
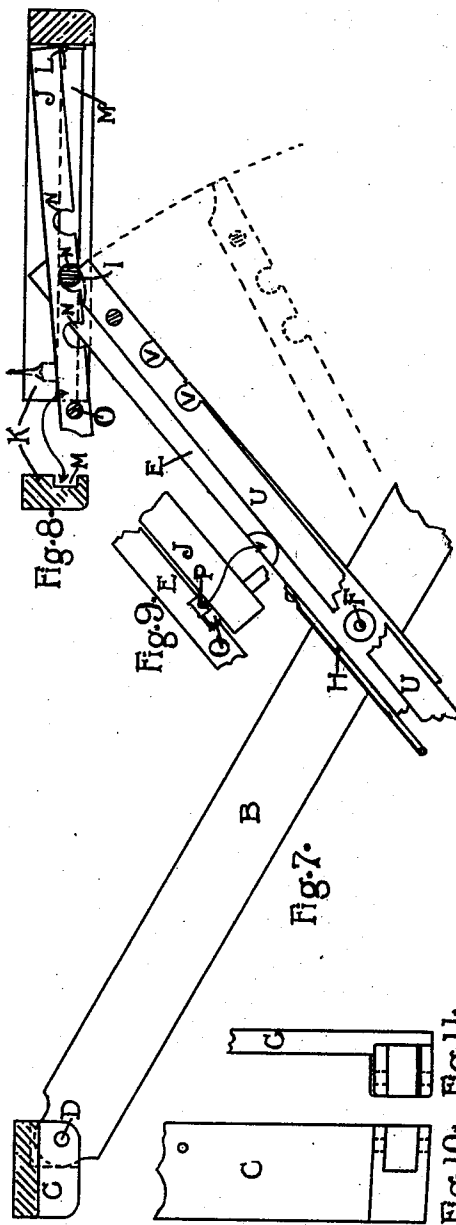
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WITNESSES:

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UNITED STATES PATENT OFFICE.

WELLINGTON E. KNAPP, OF GRAND RAPIDS, MICHIGAN.

FOLDING IRONING-TABLE.

SPECIFICATION forming part of Letters Patent No. 700,654, dated May 13, 1902.

Application filed June 17, 1901. Serial No. 64,895. (No model.)

To all whom it may concern:

Be it known that I, WELLINGTON E. KNAPP, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented new and useful Improvements in Folding Ironing-Tables, of which the following is a specification.

This invention relates to certain new and useful improvements in folding ironing-tables; and the invention consists in the combination and arrangement of parts hereinafter described and claimed.

The objects of my invention are, first, to furnish means for facilitating the folding and the unfolding of the table; second, to adapt the table to a great variety of uses; third, to give increased stability and rigidity to the table when unfolded and set up for use; fourth, to provide means for reversing the table-top in case the same shall warp; fifth, other objects particularly pointed out in the specification and claims. These objects I accomplish by means of the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of the table when set up ready for use. Fig. 2 is a side view of the table when closed or folded. Fig. 3 is an inverted plan view of the table. Fig. 4 is a side view of the table when partially open. Fig. 5 is an inverted plan view of a part of the table on an enlarged scale for the purpose of showing the hinged ratchet and also for showing the hinged or pivoted brace. Fig. 6 is a longitudinal sectional view on line X X of Fig. 3, illustrating the position of the parts when folded. Fig. 7 is a sectional view on the same line with the table opened, not showing, however, the table-top. The dotted lines show the position of the brace partially opened. Fig. 8 shows a section of one side of the frame, showing the groove therein which serves as a guide for the rod at the upper end of the standards E, as hereinafter described. Fig. 9 shows a plan view of a portion of the ratchet-frame and standard. Fig. 10 shows a plan view of the bed-piece, which is secured beneath the table-top. Fig. 11 shows a front view of the bed-piece.

Similar letters refer to similar parts throughout the several views.

A represents the table-top, which is constructed, preferably, of a single board.

B B represent what I term the "front" standards. These standards are pivoted to the bed-piece, placed near the wider end of the table-top.

C represents the bed-piece, secured to the under side of the table-top and provided with pivots or hinges for attaching to said bed-piece the standards B.

D shows the pivotal connection between the standards B and the bed-piece.

E E represent what I term the "rear" standards. These standards are pivoted to the front standards B B by means of the bolts or pivots F F, the standards E E swinging freely upon the pivots F F. The standards E E are provided with a foot G, secured thereto and extending outwardly beyond said standards, so as to give a broad and stable foundation for the standards when opened.

H H are cross-braces, preferably of metal, for the purpose of strengthening the standards E E and preventing lateral motion.

I is a rod which connects the upper ends of the standards E E together, which rod I is adapted to engage with the ratchet-frame J. The ends of the rod I project on each side beyond the standards E E and travel in the grooves in the bed-frame K. The ratchet-frame J is pivoted or hinged to the bed-frame K, as shown by L. Any form of hinge or pivot may be used for securing the ratchet-frame to the bed-frame. The bed-frame is provided with grooves M, which form ways or guides for the ends of the ratchet-rod I. The ratchet-frame is provided with a series of notches, (shown by N N.) Each notch is made hook-shaped on each side—that is, each ratchet-notch is wider at the center than at the bottom—at the opening where the rod I enters it. This construction serves to retain the ratchet-rod I in place and prevents the said rod from escaping therefrom when the table is opened and set up ready for use. The table when so set up may be moved about, and the standards will be retained in their proper position. When the table is set up, the free end of the ratchet-frame drops down, making the engagement between the ratchet-rod I and the ratchet-frame J. In closing or

folding the table the free end of the ratchet-frame J is raised, disengaging the rod I from the ratchet-notches.

O is a rod connecting the free ends of the ratchet-frame and extending beyond the side pieces of the ratchet-frame a sufficient distance to form a stop against which the standards E E come in contact as the table is unfolded, which prevents the rod I from escaping from the grooves M. When the table is closed, the ends of the rod O rest in the grooves or openings P P. This retains the ratchet in position when the table is folded. This position is shown in Figs. 6 and 9.

R is a bolt attaching the table-top to the bed-piece C.

S is a bolt attaching the table-top to the bed-frame K. The heads of these bolts are countersunk and flush with the table-top. The table-top may be reversed in case it should warp or if for any other reason it should be found desirable to reverse the table-top. The bed-frame K is further secured to the table-top by means of screws which enter but a short distance into the table-top, so that the table-top can be readily separated from the bed-frame.

T T are washers or collars on the bolts F F for the purpose of strengthening the standards and also for the purpose of separating the standards B and E at this point to allow the standards B B to close outside of frame K.

U is a pivot-brace, being attached by pivots to the standards E E and having its free end provided with the notches V V. The notches V V in the free end of the brace U are adapted to engage with the rod W of the standards B B when the table is unfolded and the brace U lowered. The position of this brace U when in use is shown in Fig. 1; when not in use in Figs. 3 and 6. The brace U is intended for use only in cases where great strength and stability is required. The upper end of the brace U is cut away, so as to fold up against the ratchet-rod I, as shown in Fig. 7.

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

1. In an ironing-table, a top, a plurality of standards pivoted to each other and one of them pivoted to the top, a part fastened to said top, having grooves, projections upon one of the standards situated in said grooves,

and a ratchet-frame hinged to the top, the notches of which are adapted to engage one of the standards, and having projections at each side thereof extending outwardly therefrom, the standard being recessed to receive said projections.

2. In combination with a table-top, a pair of front standards pivoted thereto, a pair of rear standards pivoted to said front standards, a bed-frame secured to the table-top and provided with grooves, a ratchet-frame secured to the said bed-frame, provided with a rod connecting its free ends and extending on either side beyond said frame, a ratchet-rod connecting the upper ends of the rear standards, having its ends extending on either side beyond the standards and adapted to engage with the grooves in the bed-frame, substantially as described.

3. In an ironing-table a top, a bed-plate on the under side of said top near one end thereof, a bed-frame on the under side of the top at the opposite end of the latter, means for reversibly connecting the top to the bed-plate and bed-frame, a standard having projections at one end and the bed-frame being grooved to receive said projections, a second standard pivoted to the other standard and hinged to said bed-plate, a ratchet pivoted to the frame, said ratchet serving to engage the first standard, and means carried by the ratchet for preventing said projections from being displaced from their grooves.

4. In an ironing-table the combination of front and rear standards a bed-frame K having grooved side pieces and a ratchet-frame J hinged to the said bed-frame, a rod I connecting the upper ends of standards E and extending on either side into the grooves in side pieces of bed-frame K, hooked notches N in hinged ratchet-frame adapted to engage ratchet-rod I, a rod O connecting the free ends of the ratchet-frame and extending beyond on each side, and pockets P on the inside of standards E, all substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WELLINGTON E. KNAPP.

Witnesses:

EDWARD TAGGART,
JAMES B. DAVIES.