

L. K. SMITH.
Stove Lifter and Carrier.

No. 224,617.

Patented Feb. 17, 1880.

Fig. 1.

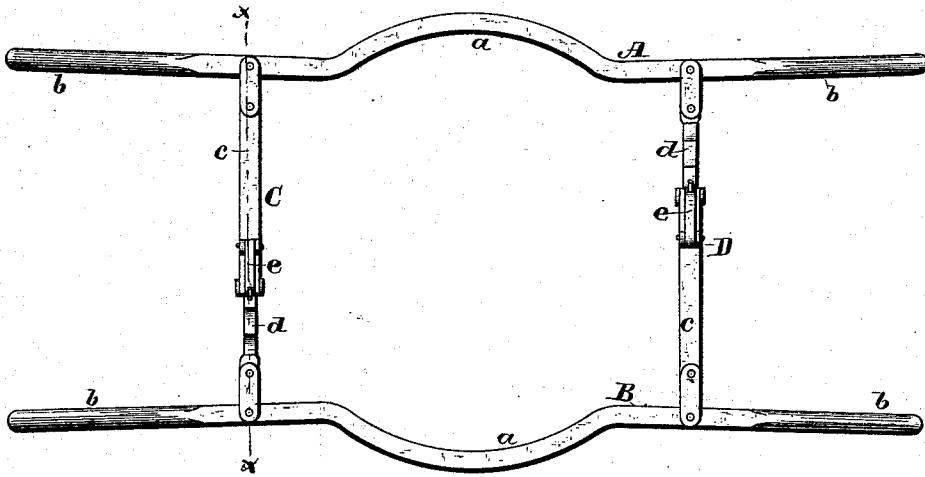


Fig. 2.

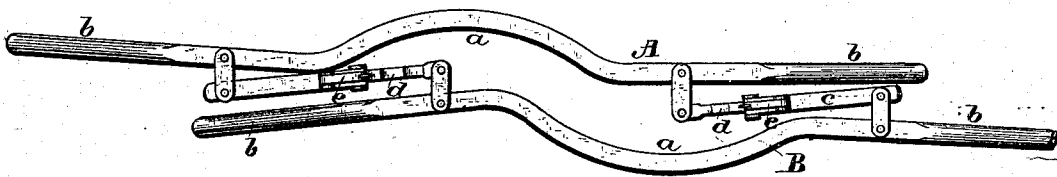


Fig. 3.

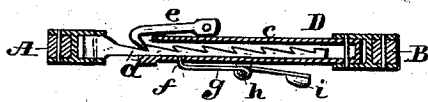
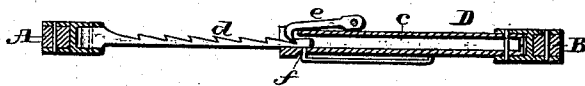


Fig. 4.



Attest:

J. Henry Kaiser
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Inventor:

Lester K. Smith by
Chas. Royce atty.

UNITED STATES PATENT OFFICE.

LESTER K. SMITH, OF TROY, OHIO.

STOVE LIFTER AND CARRIER.

SPECIFICATION forming part of Letters Patent No. 224,617, dated February 17, 1880.

Application filed January 5, 1880.

To all whom it may concern:

Be it known that I, LESTER K. SMITH, of Troy, in the county of Miami and State of Ohio, have invented an Improved Stove Lifter and Carrier, of which the following is a specification.

My invention relates to that class of devices for lifting and carrying stoves and other articles; and it has for its object the production of a device of this nature which may be quickly and easily adjusted for use, and which may be folded into a compact form for storage or shipping.

My invention consists in the construction and combination of the various parts, as will be hereinafter fully described, and particularly pointed out in the claims.

To enable the public to fully understand my invention, I will now describe it, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of my device in condition for use; Fig. 2, a similar view of the device folded for storage or shipping. Fig. 3 is a section on line *x x*, Fig. 1, showing the devices for adjusting the length of the cross-bars, said bars being shown at their shortest adjustment; and Fig. 4, a similar view of the same parts, showing them in their longest adjustment and having a modified form of connecting-stop applied thereto.

The device consists, primarily, of two longitudinal bars, A B, connected by cross-bars C D. The longitudinal bars are curved outward at their centers, as at *a*, and flared outward at their ends, as at *b*, the central portions being angular in cross-section and the ends circular or oval. To these longitudinal bars, a little outside of the outer ends of the central curved portions, are connected, by suitable pivots, the cross-bars C D. These cross-bars are each formed of a boxing, *c*, and a ratchet-bar, *d*, the boxing being pivoted to one of the longitudinal bars and the ratchet-bar to the other, and the ratchet-bar being constructed so as to freely slide longitudinally in said boxing.

To the upper side of each of the boxings is pivoted a pawl, *e*, which engages with the teeth in the upper side of the ratchet-bar.

Upon the lower side of the ratchet-bar is a

notch, *f*, to receive the end of a lever, *g*, pivoted to the lower side of the boxing at *h*, and provided at its rear end with a weight, *i*, to force the point or opposite end into said notch *f*.

A modification of this device is shown in Fig. 4, a spring-catch being substituted for the weighted lever.

The operation of my device is as follows: When it is desired to raise and carry a stove or other article, the pawls *e* are thrown back, allowing the cross-bars to be drawn out to their greatest length, when the weighted lever or spring will catch in the notch *f* and prevent the boxing and ratchet-bar from parting. The handles *b* are then grasped by two persons, one at each side of the stove, &c., and the devices put over said article, so that the stove, &c., will be embraced by the curved portions *a*. The handles are then drawn toward each other, the pawl *e* sliding over the teeth of the ratchet-bar until the curved portions are brought in contact with the sides of the stove, &c., where they will be securely locked by the pawls *e* and ratchet-bars *d*. The device may then be lifted by the handles *b* and carried to any desired point.

To remove the device from the stove, &c., it is only necessary to throw the pawls back, draw the handles apart, and lift it off.

These curved portions, as before stated, are angular in section, so that they will more readily engage with any flange or projection on the article to be carried, and the handles are rounded to give a better hand-grasp. The central curves of the handles fit a round body—such as a cylinder-stove—and the handles being flared apart furnish room for the person using the device to stand or walk in when moving an article.

Having thus fully described my invention, I claim and desire to secure by Letters Patent of the United States—

1. The combination, substantially as hereinbefore set forth, of the longitudinal handle-bars and the cross-bars pivoted thereto in the manner shown, whereby the device may be folded into compact form.

2. The combination, substantially as hereinbefore set forth, of the longitudinal handle-bars, the cross-bars pivoted thereto, as shown,

and means, substantially as described, for adjusting the length of said cross-bars.

3. The cross-bars, each composed of a boxing, *c*, provided with a pawl, *e*, and a ratchet-bar, *d*, the boxing and ratchet-bar being pivoted to the adjoining handle-bar.

4. The combination, with the handles, of the boxing *c*, pawl *e*, ratchet-bar *d*, provided with notch *f*, and an automatic stop engaging in said notch, as set forth.

5. The combination of the boxing *c*, pawl *e*, ratchet-bar *d*, provided with notch *f*, and the

pivoted weighted lever, as and for the purpose set forth.

6. The handles *a b*, each having a curved central portion and outwardly-flaring handles, as and for the purpose set forth.

In testimony whereof I hereto sign my name in presence of two witnesses.

LESTER K. SMITH.

Witnesses:

J. C. ROGERS,
CLAY BAIRD.