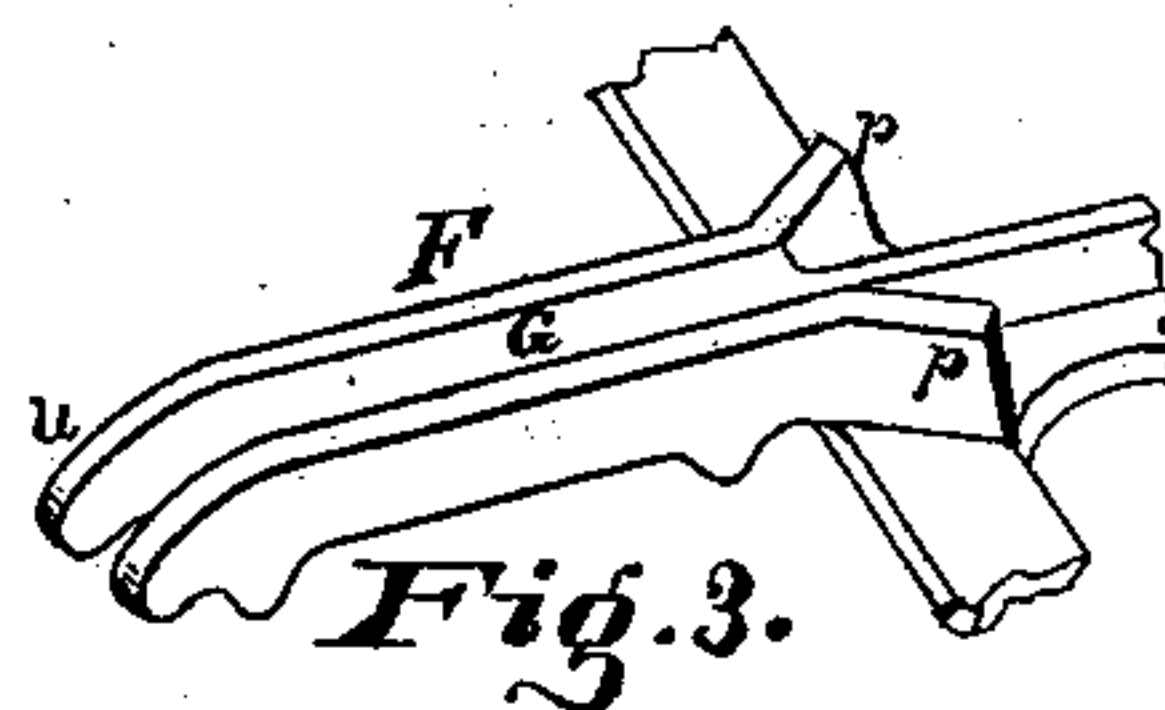
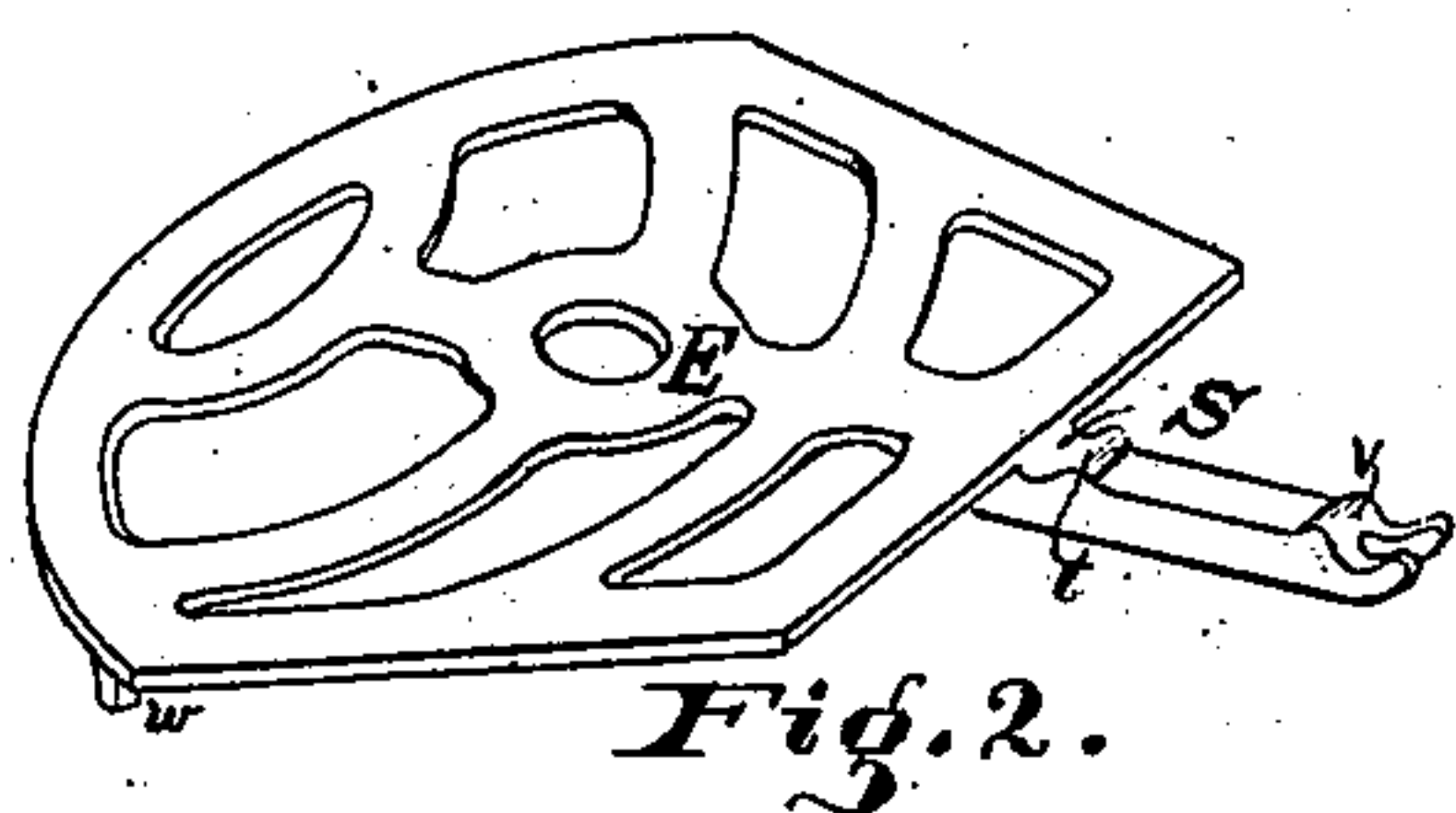
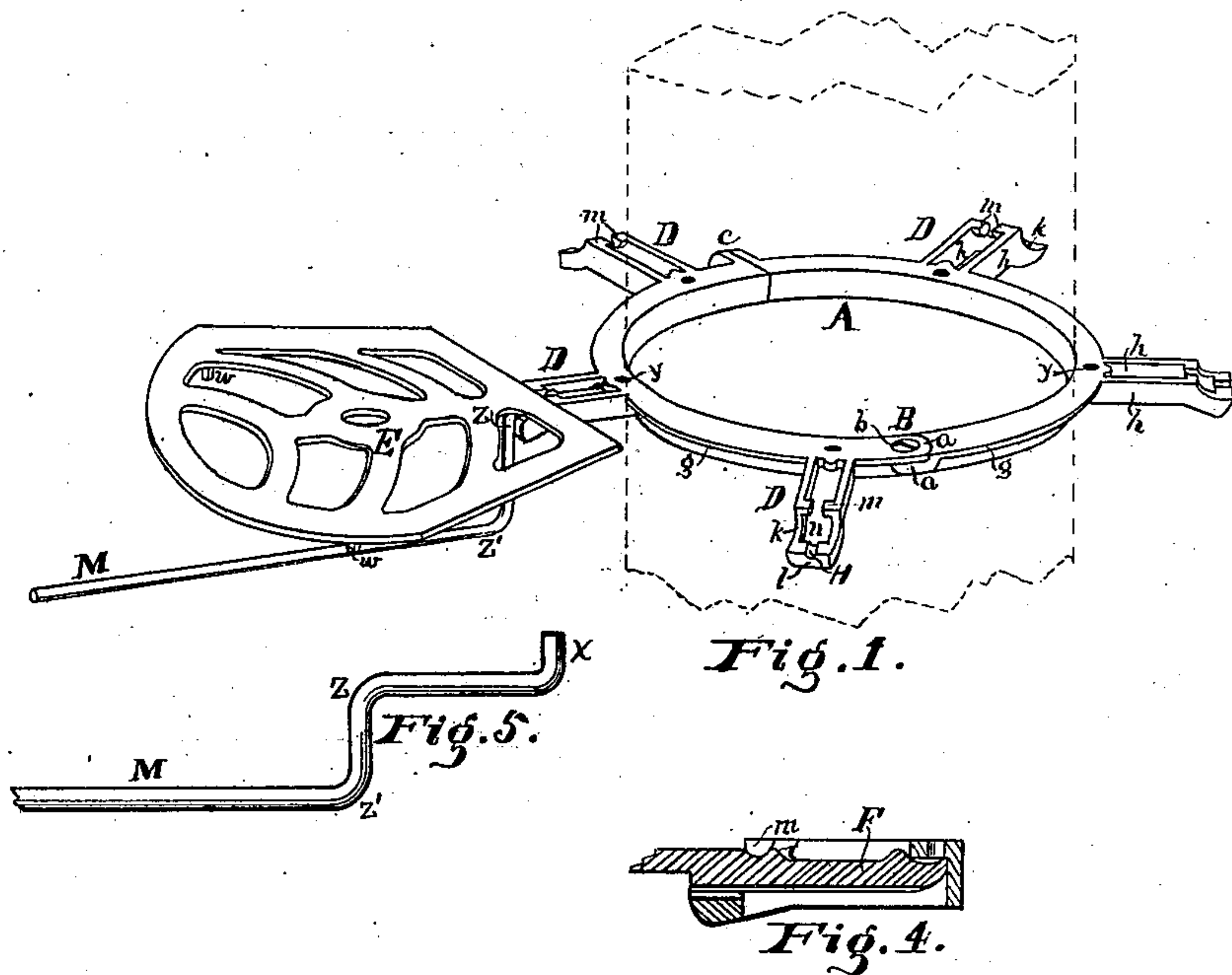


(No Model.)

M. B. COBURN.
Stove-Pipe Shelf.

No. 227,733.

Patented May 18, 1880.



Attest.
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UNITED STATES PATENT OFFICE.

MELVILLE B. COBURN, OF CINCINNATI, OHIO.

STOVE-PIPE SHELF.

SPECIFICATION forming part of Letters Patent No. 227,733, dated May 18, 1880.

Application filed March 22, 1880. (No model.)

To all whom it may concern:

Be it known that I, MELVILLE B. COBURN, a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have
5 invented a new and useful Stove-Pipe Shelf and Utensil-Holder, of which the following is a specification.

My invention in general relates to that class of stove-pipe shelves which are supported by
10 the pipe or vertical drum, &c., of a stove.

The first feature of my invention consists in a novel construction of the shelf and of the independent device attached to the stove-pipe, and by which the shelf is supported.

15 This construction enables the shelf to be readily attached to or separated from said independent supporting device, and also enables the supporting device to firmly maintain the shelf, when connected therewith, rigidly in po-
20 sition.

The second feature of my invention consists in such a construction of the shelf and its supporting devices as that it may be employed as the support of a towel or cloth holder.

25 Other features of my invention consist in such a construction of the stove-pipe shelf as that the latter may be employed as a stove-lid lifter or as a stand to support any desired utensil.

30 In the accompanying drawings, forming a part of this specification, and to which reference is hereby made, Figure 1 is a perspective view of my invention. Fig. 2 is a perspective view of the shelf removed from the collar. Fig.
35 3 is a perspective view of the under side of the arm of the shelf. Fig. 4 is a longitudinal section through the arm shown in Fig. 3 and through one arm projecting from the collar. Fig. 5 is a view of the rod for towel-rack.

40 The device for supporting the shelf consists of a collar, A, preferably made in two pieces, united together at B by a suitable hinge-joint, here consisting of two lugs, *a*, one of which is attached to each half of the collar A, one lug
45 to the upper portion of the end of one half and the other lug to the lower portion of the end of the other half, and arranged to work one upon the other, and connected by a pin or rivet, *b*, passing through a hole in each lug. The
50 other end of each half of the collar is provided with an outwardly-extending flange, *c*, perforated transversely by a bolt-hole.

The collar A is secured to the pipe by opening its halves, bringing them around the pipe and together, so that the flanges are brought
55 into proximity or contact, as the pipe may permit, the halves of the collar tightly grasping the pipe, and then by securing the flanges from moving apart by any suitable fastening de-
vice. In the present instance a screw-bolt and
60 nut are employed for this purpose. The bolt being passed through both openings in the flanges *c*, and the nut screwed on the projecting screw-threaded end of the bolt, holds the
flanges together. 65

The collar is preferably provided with a horizontally outwardly projecting flange, *g*, which enables it to be constructed with strength and lightness. Projecting from this collar A are one or more horizontal arms, D, consisting of
70 two vertical plates, *h*, provided with a concave bevel, *k*, and united at their lower outer extremities by a neck, *l*, and provided at their upper edges, at or near the point where the bevel begins, with inwardly-projecting hori-
75 zontal lugs *m*.

That portion E of the shelf upon which the utensils are to be supported consists of a broad flat plate of any suitable marginal configuration, and preferably provided with interstices
80 for permitting the heated air rising from the stove, and also that which flows upward and around the heated pipe, to pass through the bottom of the shelf and come into contact with the bottom of the utensil, and thus aid in
85 keeping the same and the contents thereof warm.

Attached to one side of the plate E is an arm, F, of such width and height as to be easily passed into the opening *n*, formed by the
90 plates *h* and the lugs *m* and neck *l*, and fit snugly therein and between the plates. The sides of that portion of arm F which is next the plate E are swelled outwardly at *p*, so that when the arm is passed into the opening *n* and
95 pushed onward the shoulders or swells at *p* prevent farther introduction of the arm into the opening *n*.

The arm F is of sufficient length that when the shoulder at *p* impinges against the bevels
100 *k* on the plates *h* the outer end of the arm will be beneath the flange *g* of the collar. The arm F is further provided with a transverse depression, S, to receive the lugs *m*, and a

transverse ridge, *t*. The lugs *m*, depression *S*, and ridge *t* together constitute a locking device for the purpose of preventing the shelf-arm *F* from coming out of arm *D*, unless re-

5 moved by human agency.

When the arm *F* is in position within arm *D* the farther end of the arm *F* rests against the bottom of flange *g*, and the lugs *m* lie in the depression *S*, and the ridge *t* is against
10 that side of the lugs *m* which is toward the collar. The weight of the plate *E* will retain these parts in the aforesaid position, and the additional weight of any utensil placed upon the plate will serve to more securely lock the
15 plate *E* and arm *F*.

When the arm *F* is to be withdrawn from the arm *D*, the plate is to be elevated until the ridge *t* will be lowered below the bottom of the lugs *m*, when the arm *F* can be withdrawn.

20 That end of the arm *F* farthest from the plate is, when desired, provided with beveled faces *u* and top transverse ridge, *v*, for the purpose of enabling the arm to be employed as a stove-lid lifter. In such case the operator
25 grasps the plate *E* and inserts the outer points of arm *F* into the usual depression in the stove lid or cover or center, the ridge *v* passing under the usual tenter-lugs or cross retaining-rod of said depression, when the lid,
30 &c., can be lifted in the usual manner.

The plate *E* is, furthermore, preferably provided with downwardly-projecting studs or lugs *w*, which serve as legs, and enable the plate *E* to be employed apart from the collar
35 *A* as a sad-iron holder or a support for various other utensils, the arm *F* in such cases serving as a handle whereby the plate *E* and whatever is thereon can be lifted and carried from one place to another.

40 The bottom of the arm *F* is provided for its entire length with a longitudinal groove, *G*, of any appropriate shape in transverse section. The upper portion of the neck *l* is also provided with a channel, *H*, the direction of whose
45 length is parallel to the length of the plates *h*. When the arm *F* is inserted into arm *D* the grooves *G* and *H* will form at the point of the neck *l* an opening, into which a rod, *M*, can be inserted and pushed onward until its end im-
50 pinges against the collar. The weight of that portion of the rod extending without and beyond the arms, being much greater than that of the portion within the arms, will press the latter portion up against the bottom of arm *F*
55 and within groove *G*, and the rod *M* will thereby be firmly held in a horizontal position.

To more effectually prevent the rod from being retracted, it may be bent near its end, as shown at *x*, and this end inserted through the
60 hole *y* in the flange *g*. The weight of that portion of the rod which is beyond the arms will also serve to retain this bent end in the hole *y*.

To give more space between arm *D* and rod *M*, in order to more readily hang towels and

65 clothes to be dried or to be hung up for use on rod *M*, the latter is bent down at *Z*, just outside the arm, and then bent horizontal again at *Z'*. The rod can be withdrawn from arms *D* and *F* by lifting it, when, by a little easy
70 manipulation, it can be slipped through the openings *y* *G* *H* and withdrawn altogether.

The bottoms or tops of the plates *h* may be connected, should additional strength be required in the arm *D*.

75 The ridge *t* or the groove *S* may be dispensed with; but I prefer to employ both, as they make a more perfect locking device.

Should the groove *G* be sufficiently deep to inclose the entire thickness of the rod *M*, the groove in neck *l* may be dispensed with, and
80 vice versa.

What I claim as new and of my invention, and desire to secure by Letters Patent, is—

1. An improved stove-pipe shelf, consisting of plate *E*, arm *F*, provided with ridge *t*, and
85 arm *D*, composed of the side plates or arms, *h*, lugs *m*, neck *l*, and provided with suitable means of attachment to the stove-pipe, drum, &c., substantially as and for the purposes
90 specified.

2. The combination of plate *E*, arm *F*, provided with ridge *t*, and arm *D*, composed of the side plates or arms, *h*, lugs *m*, neck *l*, and collar *A*, provided with flange *g*, and suitably
95 arranged to be clasped around or attached to the stove-pipe, &c., substantially as and for the purposes set forth.

3. The combination of plate *E*, arm *F*, provided with ridge *t* and longitudinal groove *G*, and arm *D* and rod *M*, substantially as and
100 for the purposes specified.

4. The combination of plate *E*, arm *F*, provided with longitudinal groove *G*, and arm *D* and rod *M*, substantially as and for the pur-
105 poses specified.

5. The combination of plate *E*, arm *F*, provided with longitudinal groove, arm *D*, collar *A*, flange *g*, provided with opening *y*, and rod *M*, substantially as and for the purposes speci-
110 fied.

6. The arm *F*, provided with plate *E* and with groove *S* and ridge *t*, combined with arm *D*, consisting of plates *h*, lugs *m*, neck *l*, said arm *F* being shaped at its outer end by means
115 of the ridge *v* and appropriate bevels, to be used as a lid-lifter, substantially as and for the purposes specified.

7. The plate *E*, provided with the studs *w* and with arm *F*, having groove or recess *S* and ridge *t*, combined with arm *D*, the latter
120 being suitably attached to a collar or equivalent device for affixing the same to the stove pipe or drum, &c., substantially as and for the purposes specified.

MELVILLE B. COBURN.

Attest:

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E. H. FOSTER.