W. E. SLOAN.

COLLAPSIBLE OVEN.

APPLICATION FILED MAR. 3, 1908.

913,570.

Patented Feb. 23, 1909.

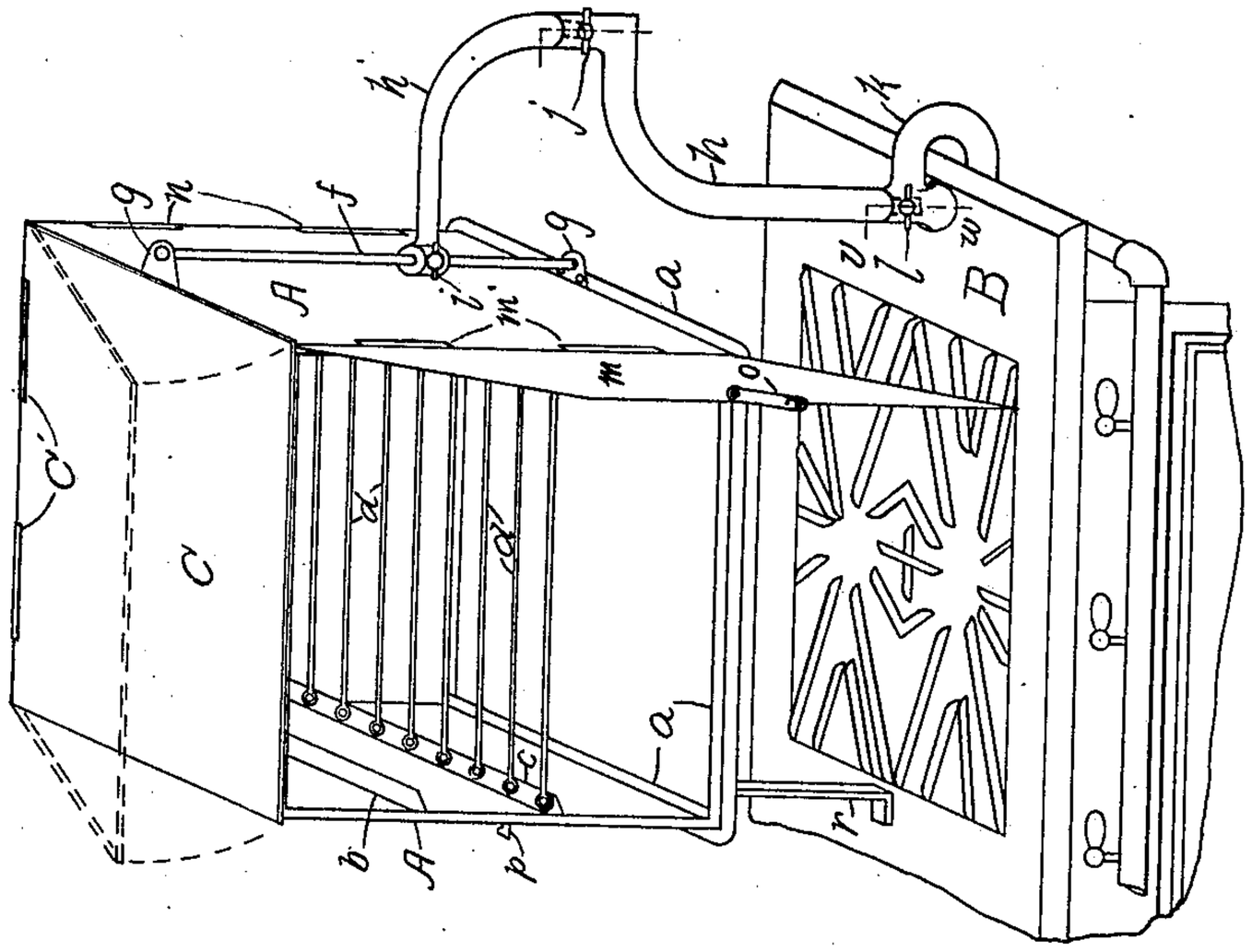

Fig. 1

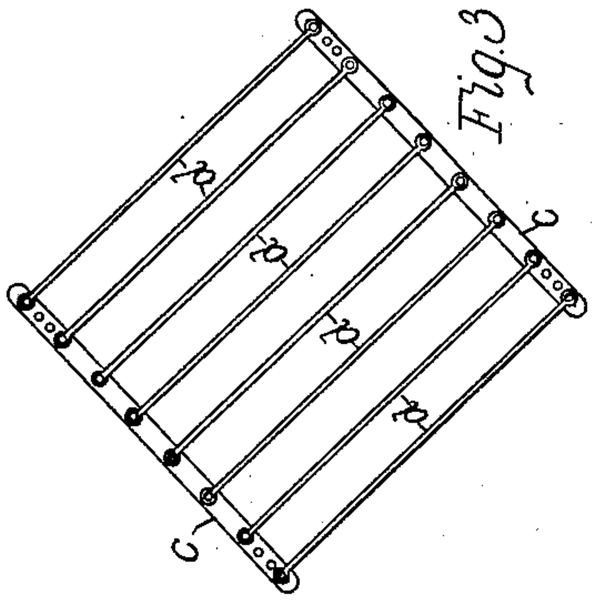

Fig. 3

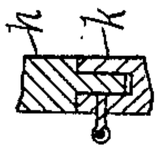

Fig. 7

Fig. 2

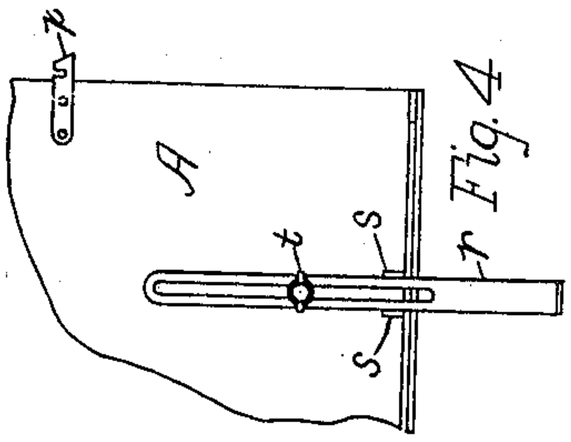

Fig. 4

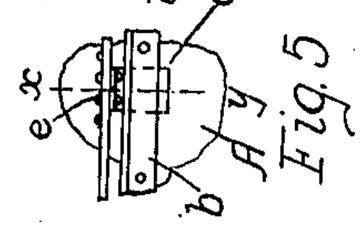

Fig. 6

Fig. 5

WITNESSES:

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COLLAPSIBLE OVEN.

No. 913,570. Specification of Letters Patent. Patented Feb. 23, 1909.

Application filed March 3, 1908. Serial No. 418,934.

To all whom it may concern:

Be it known that I, WINIFRED E. SLOAN, a citizen of the United States, residing at Sioux City, in the county of Woodbury and State of Iowa, have invented new and useful Improvements in Collapsible Ovens, of which the following is a specification.

My invention relates to ovens and has for its object the construction of an oven supported above a stove or range and adapted to be collapsed and removed when not in use.

A further object is to provide an oven that can be adjusted to any desired position and either swing inward or outward, or up or down, and be folded in any of the above positions. It is adapted for use in flats, buffet cars and other places where economy of space is required, and is intended as an improvement upon the invention patented by me December 31, 1907, No. 875,124.

I have illustrated my invention in the accompanying drawing in which—

Figure 1 is a perspective view of oven supported above a section of gas stove. Fig. 2 is a cross section of oven, the dotted lines showing the oven and the shelves partly collapsed. Fig. 3 is a plan view of one of the oven shelves. Fig. 4 is a section of one side of the oven showing a leg for supporting the same. Fig. 5 is a view of section of one side of oven showing the ledge supports and means for securing the shelf thereto. Fig. 6 is a cross section on line *x*—*y*, Fig. 5. Fig. 7 is a section of bracket on line *v*—*w*, Fig. 1, showing the joint therein.

Referring to the drawing A is a usual box-like structure hinged at the corners by hinges *n*, having a cover C hinged at the back upon hinges C′ and adapted to be thrown over the back, and a front door *m* supported upon hinges *m*′. The sides of the oven are supported upon flat bars *a*, pivoted at the corners and permitting the sides of the oven to be folded together when the door and cover are open. The front door may be secured by means of a latch *o*, and adapted to fit a catch *p*, secured to one side of the oven. The usual ledges *b* composed of thin angle iron for the support of shelves, are secured to the inside of the oven at suitable distances by rivets. The shelf shown in Fig. 3 is composed of the two side pieces *c* and cross rods *d*, pivoted at the ends to the side pieces to allow the shelf to collapse or fold with the oven without being removed. To hold the shelves in their relative position when the oven is collapsed, I have provided a section of thin angle iron *e*, one part of which is secured to the lower side of the side pieces *c*, near each corner by rivets *e*′, the other part being adapted for insertion between the side of the oven and the ledge *b*. As the side of the oven is usually composed of thin material, it may be sufficiently sprung to permit the insertion of these pieces. The pieces may be readily removed from their places when it is desired to take the shelves out.

I have provided means for pivotally securing the oven to any desired part of the stove, whence it may be easily removed and permit the ordinary use of the stove. At one side of the oven to the top and bottom are provided projecting lugs *g* to which is riveted the ends of a rod *f*. A clamp *k* adjustably secured to the stove, pivotally supports a standard *h*, the lower end of the standard terminating in a small pin or dowel which rests in a socket in the clamp, as seen in Fig. 7. The two parts may be made rigid by tightening the set screw 1. The standard curves outwardly at the upper end where it is again bent to a perpendicular position for the support of the curved arm *h*′, the lower end of which terminates in a dowel or pin resting in a socket in the upper end of the standard *h*, in the same manner as the joint just described. This joint may be tightened or loosened by the means of a set screw *j*. The arm *h*′ curves oppositely to the standard *h* toward the oven, the opposite end being formed into a ring inclosing the adjusting rod *f*. The oven may be set at any desired height by moving the rod *f* in the ring and tightening the set screw *i*. To the opposite side of the oven is secured a slotted bar *r* between guides *s*, a set screw *t* being screwed into the sides of the oven through the slot. When the oven is placed in the desired position, the leg may be adjusted for the support of the oven by resting it on the stove.

The oven being principally supported upon an arm having three joints, may be adjusted in any desired position and when not in use may be folded or collapsed by the movement of the hand and pushed back out of the way. The oven may be used without the pivoted support by resting it directly upon the stove and when not in use may be folded in the same way and set to one side.

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

1. In an adjustable oven, the combination of a collapsible frame jointed or hinged at the corners, a clamp and set screw for securing said oven, a jointed arm and adjusting rod pivotally supporting said oven on a stove or range, and folding shelves supported in said oven, substantially as described.

2. In an adjustable oven, the combination of a folding frame, a clamp and set screw and a jointed arm and adjusting rod, with means for controlling the same, adapted for pivotally supporting the oven above a stove or range, and an adjustable leg support for said oven, substantially as described.

3. In a collapsible oven, the combination of a folding frame, a clamp and set screw and a jointed arm and adjusting rod, with means for controlling the same, adapted for adjustably supporting the oven upon a stove or range, folding shelves supported in the oven and means for retaining the shelves in their relative positions when the oven is folded, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WINIFRED E. SLOAN.

Witnesses:
H. C. GARDINER,
J. S. NELSON.