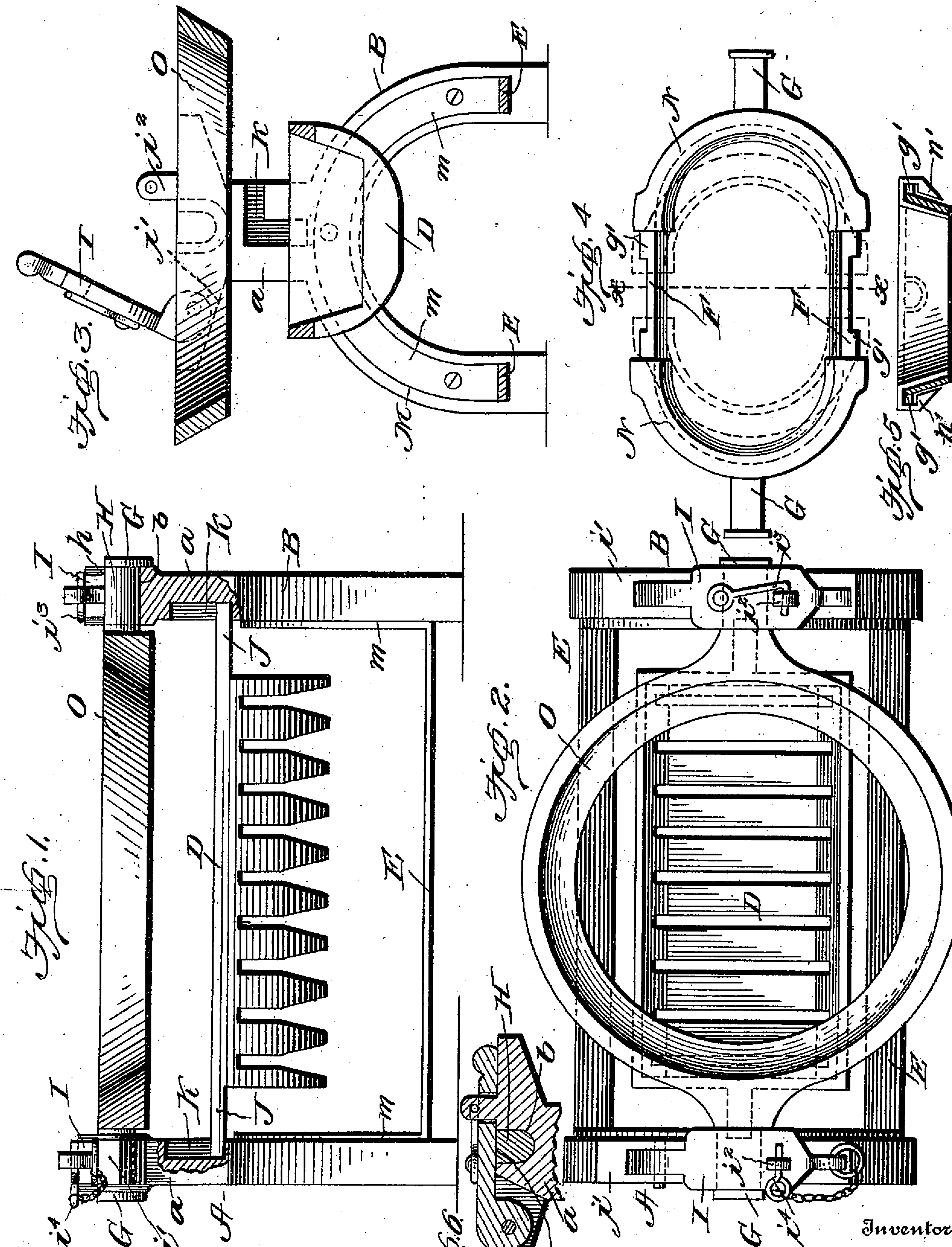
No. 692,718. **Patented Feb. 4, 1902.**

N. F. SEAT.

KNOCKDOWN STOVE.

(Application filed Nov. 4, 1901.)

(No Model.)



Witnesses

C. E. Hunt

J. Albrillson

Inventor

Norman F. Seat

By H. B. Willson & Co.

Attorneys

UNITED STATES PATENT OFFICE.

NORMAN F. SEAT, OF MADISONVILLE, KENTUCKY.

KNOCKDOWN STOVE.

SPECIFICATION forming part of Letters Patent No. 692,718, dated February 4, 1902.

Application filed November 4, 1901. Serial No. 81,105. (No model.)

To all whom it may concern:

Be it known that I, NORMAN F. SEAT, a citizen of the United States, residing at Madisonville, in the county of Hopkins and State of Kentucky, have invented certain new and useful Improvements in Knockdown Stoves; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to knockdown stoves of that character designed for outdoor use and which may be readily set up for use and be taken apart and compactly packed for storage or transportation.

The object of the invention is to provide a stove of this character which shall be simple of construction, durable in use, comparatively inexpensive of production, and efficient in action.

With this and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, which will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation, partly in section, showing the stove set up for use. Fig. 2 is a top plan view. Fig. 3 is a transverse sectional view. Fig. 4 is a top plan view of a modified form of vessel-support. Fig. 5 is a sectional view on line *x x*, Fig. 4; and Fig. 6 is a vertical cross-sectional view through the upper end of one of the end pieces of the supporting-frame and the trunnion of the vessel-support.

The supporting-frame consists of the end pieces A B, each of which consists of an arched portion, which forms the legs of the end pieces, and a vertical portion *a*, having a semicircular bearing *b*. The arched portion of each end piece has on its inner face a semicircular groove M, and the vertical portion has on its inner face an L-shaped groove K. A connecting-frame, which consists of an iron bar bent to form arch-shaped ends *m* and longitudinal stringers E, is employed for connecting the end pieces of the supporting-frame together and has its arch-shaped portions fitted in the arch-shaped or semicircular grooves formed on the inner end pieces A B and bolted in position.

D denotes a grate in the form of a basket-grate, provided with arms J, which are slipped laterally into the L-shaped notches K and are supported by the end wall thereof.

O denotes a vessel-support, shown in Figs. 1, 2, and 3 as circular and formed with a sloping inner wall and provided with diametrically opposed laterally-projecting studs H, which fit the bearing *b* and are provided with flat sides *h* and with flanges G, the latter engaging the outer sides of the vertical extensions of the end pieces and serving to brace and add rigidity to the supporting-frame. Any suitable means may be employed for holding these studs in their bearings—as, for instance, latches I, hinged to the cross-heads or enlargements *i'* of the vertical extensions and adapted to be swung down into engagement with the flat surface of the studs H and held in that position by any suitable means. As shown, these means consist of perforated studs i^2, which project through holes formed in the latches and receive a hook i^3 or a cotter-pin i^4.

The operation is as follows: A fire having been built in the grate, a vessel in the form of a boiler, kettle, or, in fact, any cooking utensil, is placed upon and supported by the vessel-support O immediately above the fire contained within the grate D, thus subjecting it to the ascending heat.

The parts may be easily and quickly disconnected and compactly assembled for storage or transportation.

In order to render the vessel-support capable of supporting vessels of different sizes, I may form said support of three pieces, as shown in Figs. 4 and 5, the piece F being oblong and provided with studs *g* and with laterally-projecting flanges *g'*, and the pieces N being semicircular in form and provided with hooks *n'* to engage said flanges. By moving the pieces N toward and away from each other the opening is varied, thus accommodating the vessel-support to vessels of different sizes.

From the foregoing description, taken in connection with the accompanying drawings, the construction, mode of operation, and ad-

vantages of my invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and details of construction may be made within the scope of the invention without departing from the spirit or sacrificing any of the advantages thereof.

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

1. In a knockdown stove, the combination of an open-work frame comprising suitably-braced end pieces, a grate removably supported thereby, and a removable vessel-support located above said grate and having laterally-projecting studs supported by said end pieces, substantially as described.

2. In a knockdown stove, the combination of an open-work frame comprising suitably-braced end pieces, a grate removably supported thereby, a vessel-support located above the grate and having laterally-projecting studs supported by said end pieces, and means for fastening the studs in position on said end pieces, substantially as and for the purpose set forth.

3. In a stove of the character described, the combination with the supporting-frame, of a grate supported thereby, and a vessel-support having laterally-projecting studs supported by said frame, said studs being provided with collars to prevent the spreading of the upper ends of the side pieces of the frame, and stringers for preventing the spreading of the lower ends of the side pieces of the frame, substantially as set forth.

4. In a stove of the character described, the combination with the end pieces of the supporting-frame and means for connecting the end pieces together near their lower ends, of a grate supported by the end pieces, a vessel supported by the upper ends of the end pieces above said grate and provided with collars that engage the outer sides of the end pieces and brace said end pieces against spreading, substantially as set forth.

5. In a stove of the character described, the combination with a suitable supporting-frame provided with bearings in its upper end, of a suitably-supported grate, and a vessel-support located above said grate and having studs to engage said bearings, said studs being provided with flat surfaces, pivoted latches for bearing against said flat surfaces, and means for holding the latches in locked contact with said flat surfaces, substantially as set forth.

6. In a stove of the character described, the combination with the end pieces, the inner faces of which are provided with curved grooves, of longitudinal stringers, the ends of which are connected by arch-shaped pieces which fit into said grooves, means for securing said arch-shaped pieces in said grooves, a grate supported by the end pieces, and a vessel-support located above said grate, substantially as set forth.

7. In a stove of the character described, the combination with the supporting-frame, of a vessel-support supported thereby and consisting of three pieces, one of which is oval and the others of which are semicircular and have a sliding connection with the oval section, substantially as set forth.

8. In a stove of the character described, the combination with the supporting-frame, of a vessel-support supported thereby and consisting of three pieces, one of which is oval and the others of which are semicircular and have a sliding hook connection with the oval section, substantially as set forth.

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

NORMAN F. SEAT.

Witnesses:
J. W. THOMSON,
R. W. GENTRY.