

No. 679,655.

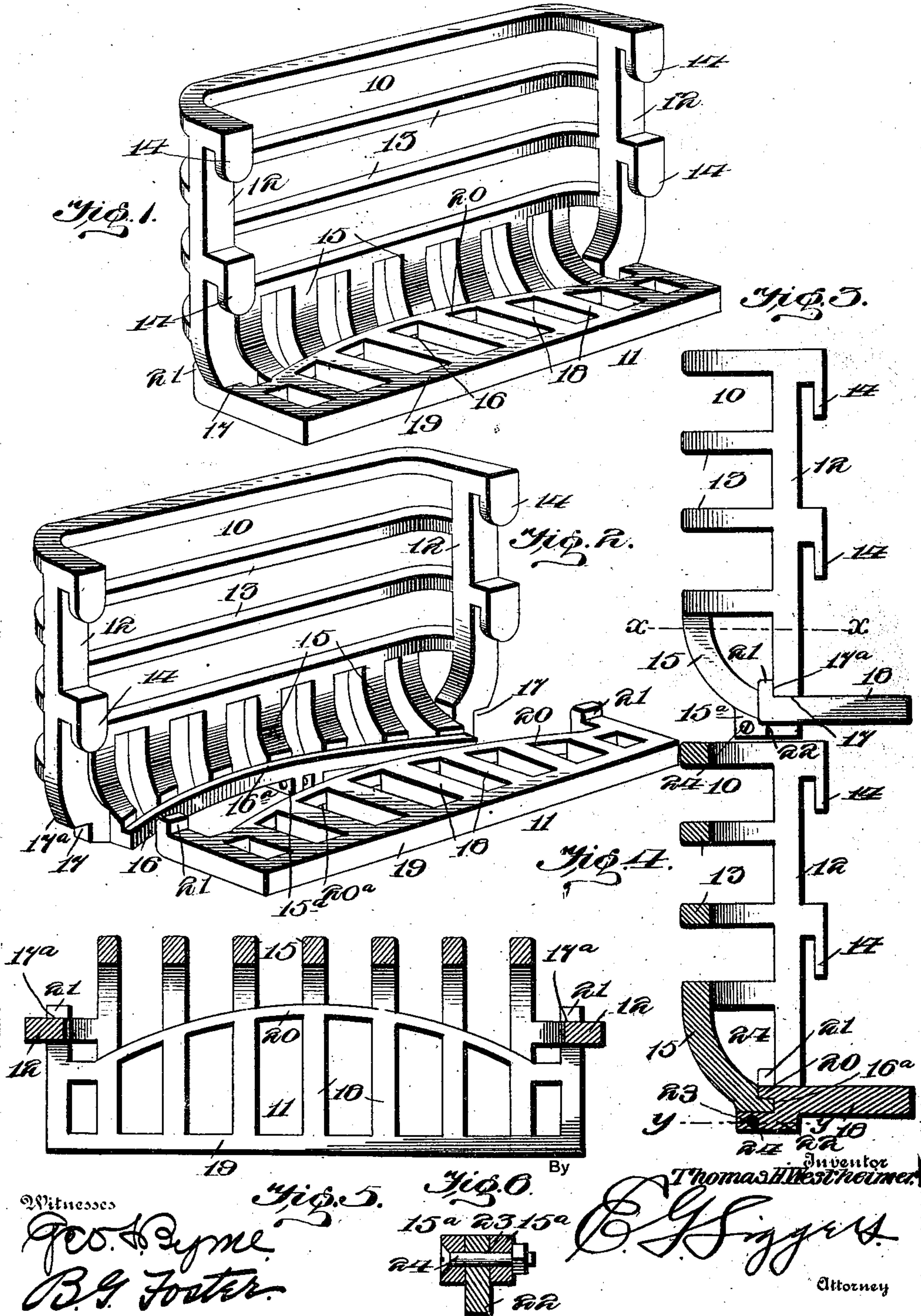
Patented July 30, 1901.

T. H. WESTHEIMER.

GRATE.

(Application filed July 14, 1900.)

(No Model.)



UNITED STATES PATENT OFFICE.

THOMAS HENRY WESTHEIMER, OF AMERICUS, GEORGIA.

GRATE.

SPECIFICATION forming part of Letters Patent No. 679,655, dated July 30, 1901.

Application filed July 14, 1900. Serial No. 23,648. (No model.)

To all whom it may concern:

Be it known that I, THOMAS HENRY WESTHEIMER, a citizen of the United States, residing at Americus, in the county of Sumter and State of Georgia, have invented a new and useful Grate, of which the following is a specification.

In the ordinary construction of basket-grates the entire grate is generally made of a single casting. As a general rule the bottom burns out long before the front portion, thus rendering the entire grate useless; and it is one object of the present invention to remedy this disadvantage by providing a grate with a separable or detachable bottom which can be readily replaced by another when it becomes burned out or broken, thus obviating the expense of an entire new grate.

A further object is to provide a construction whereby when the separable sections are in operative position they are positively interlocked and there is no chance of their being accidentally displaced.

In order that the invention may be fully understood, the preferred form thereof is described in the following specification and shown in the drawings which accompany and form a part of the same, and in which—

Figure 1 is a perspective view of a basket-grate constructed in accordance with this invention. Fig. 2 is a perspective view showing the side and bottom sections detached. Fig. 3 is an end elevation of the grate in assembled position. Fig. 4 is a vertical cross-section through the center of the grate. Fig. 5 is a horizontal section on the line *xx* of Fig. 3. Fig. 6 is a detail sectional view on the line *yy* of Fig. 4.

Similar numerals of reference designate like and corresponding parts in each of the figures of the drawings.

In the drawings, 10 designates the front section, and 11 a separable bottom adapted to be interlocked with the front section. The front section 10 may be made in any desired shape or form, but as shown comprises upright end pieces 12, joined by horizontal cross-bars 13, and having the hooks 14, by means of which it is supported in position in the fireplace. The lower portion of the front section is provided with a plurality of upright curved bars 15, the lower ends of which are joined by the

horizontal curved strip or flange 16, forming a continuous shoulder 16^a along the lower end of the front section 10. The lower ends of the upright end pieces 12 are cut away, as at 17, to form a pair of opposite shoulders 17^a, which are adapted to be engaged by suitable locking-hooks on the bottom section, as will be hereinafter described. Depending from the central portion of the front section is a pair of spaced ears 15^a, which are provided with suitable bolt-openings.

The bottom section 11 comprises a plurality of cross grate-bars 18, each of which is joined at one end to the longitudinal bar 19, that is adapted to rest in juxtaposition to the back wall of a fireplace. The opposite ends of the grate-bars 18 are joined along their upper end edges by the curved strip or flange 20, which conforms to the flange 16 of the front section and forms a continuous shoulder 20^a along the edge of the bottom section. The end portions of the bottom sections are also provided with the horizontal upturned hooks 21, adapted to engage the shoulders 17^a of the front section. The curved portion of the bottom section is provided with a horizontal projecting ear 22, having a bolt-opening 23 therethrough.

In connecting the bottom section 11 to the front section 10 the hooks 21 are engaged around the shoulders 17^a and the continuous flanges 20 and 16 abut against the shoulders 16^a and 20^a, respectively. In this position the parts are securely interlocked and fuel placed in the grate will only tend to force them into closer engagement. In order, however, to more securely hold the sections in proper relation to each other, the bolt 24 is passed through the openings in the ears 15^a of the front section and through the opening 23 in the ear 22, thus securely clamping the two sections together. By this means it will be seen that a grate is provided in which the bottom may be replaced when it becomes burned out without the necessity of an entire new structure. Furthermore, when the sections are in operative position the parts are securely interlocked, the bottom section being entirely supported by the front section and requiring no supporting means for the projecting or free end thereof. Furthermore, the means for preventing independent move-

ment of the grate-sections is arranged on the exterior face of the grate, where it is more readily accessible and is not exposed to the fire.

5 While the invention has been described as being used in a fireplace, it will be evident to those skilled in the art that it may be applied with equal advantage to cooking or other class of stoves.

10 From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood that changes in the size, shape, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

25 1. A grate, comprising a front section having a continuous supporting-flange along the lower edge thereof and having its lower end portions cut away to form shoulders, a bottom section provided with a continuous flange adapted to rest upon the supporting-flange of the front section, and a pair of upturned

hooks carried by the bottom section and arranged to engage the said shoulders of the front section. 30

2. A grate comprising a front section, a bottom section having an interlocking engagement with the front section, interlocking ears 35 carried by the respective sections, and means for securing said ears together.

3. In a grate, a front section, a bottom section pivotally connected with the front section, and means located contiguous to the 40 pivotally-jointed portions of the two sections and on the exterior face of the grate to hold said sections against relative movement.

4. In a grate, a front section, a bottom section pivotally and detachably interlocked 45 with the front section, and means located contiguous to the interlocking portions of the two sections and on the exterior face of the grate to hold said sections against relative movement. 50

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

THOMAS HENRY WESTHEIMER.

Witnesses:

CHAS. J. RUSSELL,
C. H. BURKE.