

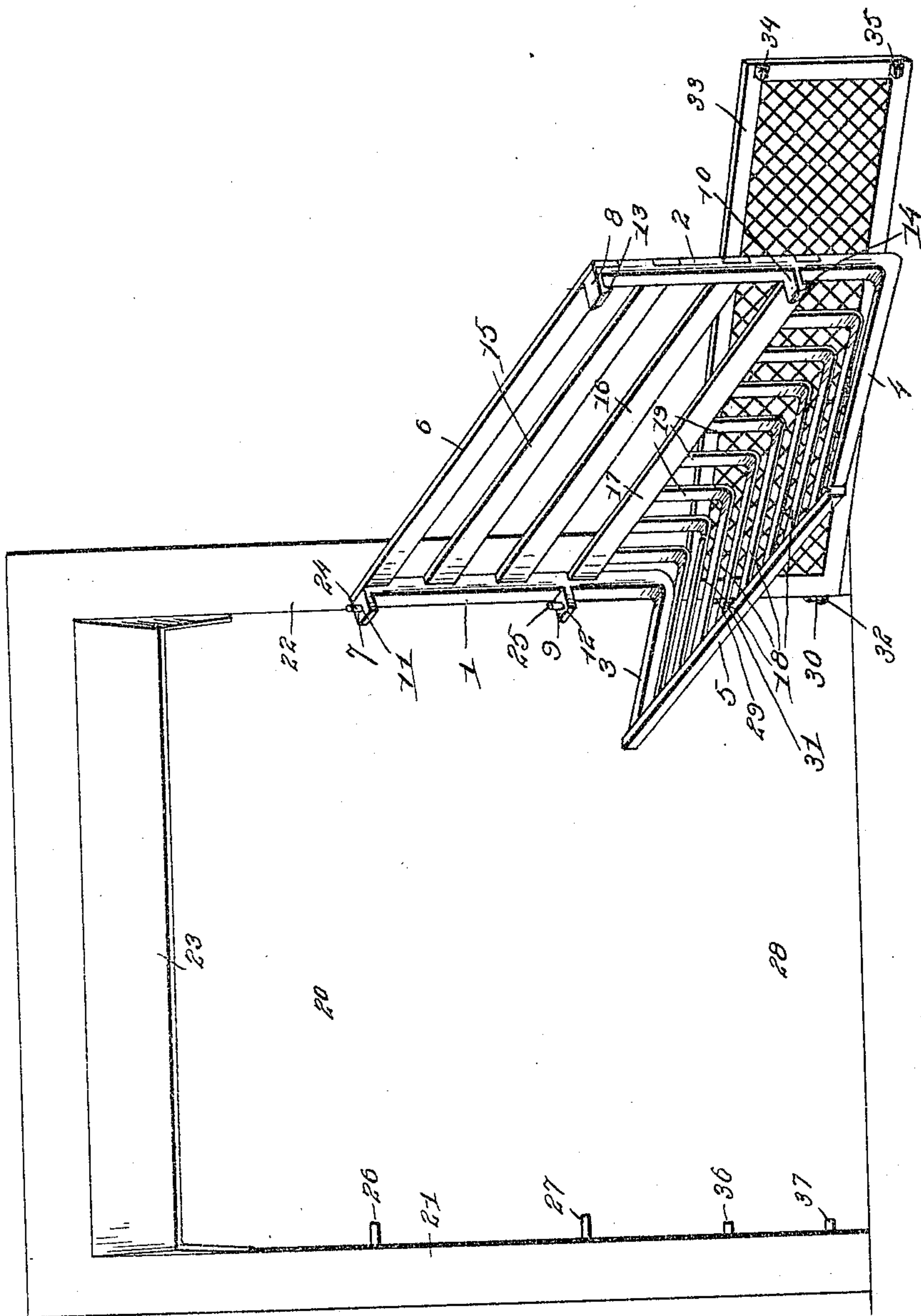
No. 837,745.

PATENTED DEC. 4, 1906.

G. M. SMITH & G. M. PETTY.

GRATE.

APPLICATION FILED JUNE 1, 1905.



Witnesses  
*L. Armstrong*  
*E. M. Colford*

Inventors  
*G. M. Smith, and*  
*G. M. Petty.*  
By *Charles Chandler*  
Attorneys.



# UNITED STATES PATENT OFFICE.

GEORGE M. SMITH AND GEORGE M. PETTY, OF KNOXVILLE, TENNESSEE.

## GRATE.

No. 837,745.

Specification of Letters Patent.

Patented Dec. 4, 1906.

Application filed June 1, 1905. Serial No. 263,309.

*To all whom it may concern:*

Be it known that we, GEORGE M. SMITH and GEORGE M. PETTY, citizens of the United States, residing at Knoxville, in the county of Knox, State of Tennessee, have invented certain new and useful Improvements in Grates; and we do hereby 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.

This invention relates to grates, and more particularly to grates employed in open fireplaces.

One object of the invention is to provide a grate in the form of a basket, whereby the basket, including the grate itself, may be hingedly arranged with respect to the fireplace and detached therefrom.

Another object of the invention resides in the provision of an exceedingly simple, inexpensive, durable, and efficient basket of the character described and for the purposes stated.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawing, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claim without departing from the spirit or sacrificing any of the advantages of the present invention.

In the drawing there is shown an elevation of a fireplace with the grate and ash-pit door or fender in perspective and in open positions.

Referring now more particularly to the accompanying drawing, the reference characters 1 and 2 designate the sides of the front of the basket, each having its lower end directed laterally, as at 3 and 4, respectively, with their said laterally-directed ends connected by a cross-piece 5, the upper ends of the side bars 1 and 2 being connected by a cross-piece 6, from which latter and directly over the side bars are projections 7 and 8, which project over and in spaced relation to the members 3 and 4. Formed upon the side bars 1 and 2 between the projections 7 and 8 and the members 3 and 4, respectively, are other projections 9 and 10, the projections 7 and 9 having perforations 11 and 12, respectively, while the projections 8 and 10 are each pro-

vided with downwardly-directed bills 13 and 14, respectively, whereby the members 8 and 10 are formed into hooks.

The front of the basket has two or more longitudinal members 15 and 16, arranged parallel with each other and the member 6, and another member 17, which latter is arranged substantially in alinement with the ear or projection 9 and the hook 10. The bottom of the basket or grate upon which the fuel is placed is composed of a series of bars 18, each connected at one of its ends to the member 5 and bent upwardly at its opposite end, as at 19, into engagement with the rear face of the longitudinal bar 17. It will thus be seen that my improved basket is composed of integral parts including spaced ears upon one end and spaced hooks upon opposite ends.

The reference character 20 designates a fireplace having side walls 21 and 22 and a top wall 23. Disposed upon the inner face of the wall 22, adjacent the outer edge thereof, are upper and lower hinge-pintles 24 and 25, respectively, upon which the corresponding perforated ears 7 and 9 are fitted to provide a swinging movement of the basket with respect to the fireplace. The opposite wall 21 has projections 26 and 27 projecting from its inner face, near the outer edge thereof, and in alinement with the respective hinge-pintles 24 and 25, the projections 26 and 27 being designed for engagement by the hooks 8 and 10 of the basket to lock the latter in position with respect to the fireplace.

From the foregoing it will be seen that a slight upward movement upon the hooked end of the basket will permit a disengagement of the hooks 8 and 10 from the projections 26 and 27 and allow a swinging movement of the basket upon the hinge-pintles 24 and 25.

Beneath the fuel-basket is the usual ash-pit 28, having hinge-pintles 29 and 30, arranged upon the wall 22 of the fireplace beneath and in alinement with the aforesaid hinge-pintles 24 and 25, the lower hinge-pintles 29 and 30 being designed for the reception of the hinge members 31 and 32 of the ash-pit door 33, whereby the latter may be swung outwardly from the ash-pit 28. The end of the gate, closure, or door 33 at its end opposite to the end upon which the aforesaid perforated ears are formed is provided with inwardly-directed upper and lower hooks 34 and 35, designed for engagement with the up-



per and lower projections 36 and 37, formed upon the inner face of the wall 21, whereby the ash-pit closure 33 may be secured in locked position in the same manner as is the fuel-basket.

As shown in the drawing, the fuel-basket is entirely independent of the ash-pit door, and the said basket and door are so mounted that they may be swung outwardly independently of each other, the said fuel-basket being located directly above the ash-pit door.

What is claimed is—

The combination with a fireplace including side walls, of a fuel-basket hinged to one of said walls for outward swinging movement,

and an ash-pit door hinged to the same wall and directly beneath the front portion of the fuel-basket, the said ash-pit door being entirely independent of the fuel-basket, the upper edge of the ash-pit door being designed to register with the lower forward edge of the fuel-basket when the fuel-basket and door are closed.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE M. SMITH;  
GEO. M. PETTY.

Witnesses:

J. W. BOHANAN,  
W. A. CASH.