P. F. SEMONIN.

GRATE BASKET.

APPLICATION FILED DEC. 17, 1920.

1,385,931. Patented July 26, 1921.

Fig. 1.

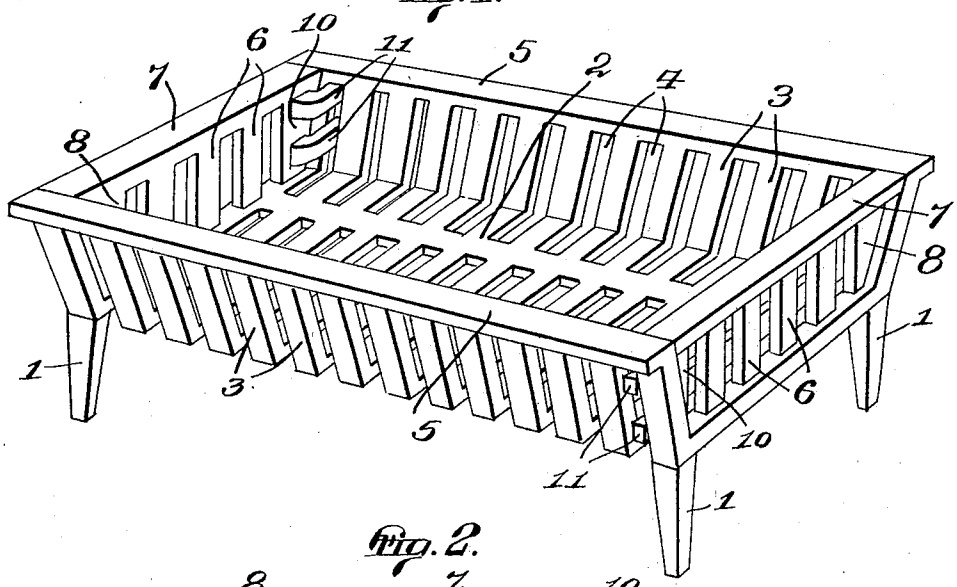



Fig. 2.

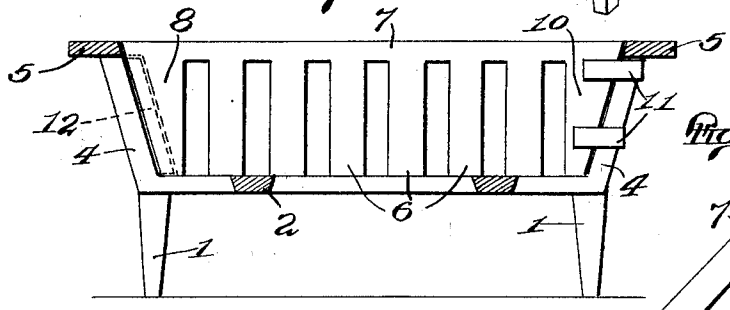



Fig. 4.

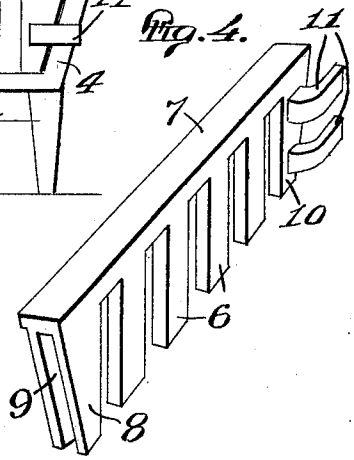
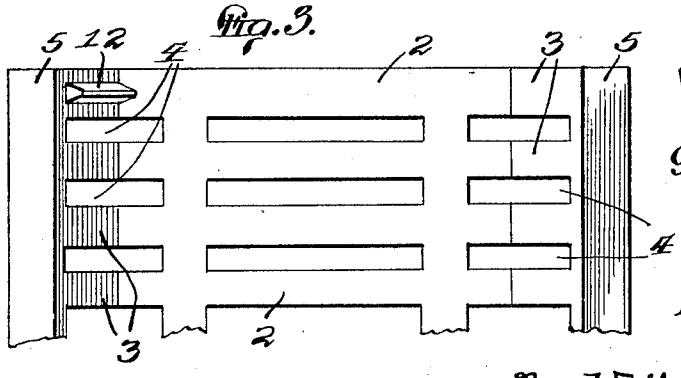



Fig. 3.




Inventor

P. F. Semonin

By Wilkinson & Giusta

Attorneys

# UNITED STATES PATENT OFFICE.

PAUL F. SEMONIN, OF LOUISVILLE, KENTUCKY.

## GRATE-BASKET.

1,385,931. Specification of Letters Patent. Patented July 26, 1921.

Application filed December 17, 1920. Serial No. 431,472.

*To all whom it may concern:*

Be it known that I, PAUL F. SEMONIN, a citizen of the United States, residing at Louisville, in the county of Jefferson and State of Kentucky, have invented certain new and useful Improvements in Grate-Baskets; and I 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.

The present invention relates to improvements in grate baskets and it more particularly resides in the provision of removable side walls for the grate basket in order that the same may be convertible for use with coal or logs of varying lengths.

In accordance with commercial practices at present prevailing, grate baskets are made in two forms, either with side walls for use with coal or without side walls to receive logs, some of which are of a greater length than the basket and consequently could not be properly received therein in case of a basket provided with permanent side walls.

It is an object of the invention to provide removable side walls of such a character that they may be easily withdrawn and replaced and which form a simple and inexpensive construction.

With the foregoing and other objects in view, the invention will be more fully described hereinafter, and will be more particularly pointed out in the claims appended hereto.

In the drawings, wherein like symbols refer to like or corresponding parts throughout the several views,

Figure 1 is a perspective view of an improved grate basket constructed according to the present invention;

Fig. 2 is a transverse sectional view therethrough;

Fig. 3 is a fragmentary plan view of the basket with its side wall removed; and

Fig. 4 is a perspective view of the improved removable side wall.

Referring more particularly to the drawings, 1 designates the legs which support the bottom 2 of the grate basket at an elevation above the hearth or fireplace in which the same is adapted to be placed.

The bottom 2 of the basket is slotted or perforated in accordance with any suitable construction or design and carries front and rear walls composed of upright spaced apart bars 3 having slots or spaces 4 therebetween and connected at their upper ends by rails or flanges 5.

The removable side walls are of a similar construction to the front and rear walls in the embodiment illustrated, but it will of course be understood that they may be made in accordance with any suitable design.

In Fig. 4 is shown one of the side walls as comprising vertically extending bars 6 adapted to rest on the bottom and connected at their upper ends by a rail 7. The end bar 8 is of substantially greater width than the intermediate bars 6 and expands upwardly by virtue of the inclined edge construction of the side wall which corresponds to the inclination given to the front and rear walls of the grate basket.

Within the inclined end of the side wall at which the bar 8 is located is made a recess 9 open at its lower end and closed by the rail 7 at its top portion. The opposite end bar 10 is of a similar tapering or inclined construction to snugly conform to the opposite flaring side of the grate basket and is furthermore provided with a pair of curved lugs 11 which extend inwardly into the basket and outwardly beyond the edge of the side wall and into the adjacent slot 4 of the rear wall.

The front and rear walls are provided with ribs 12 arranged to be received into the recesses 9 of the side walls and, as indicated in Fig. 3, these ribs are preferably of a substantially triangular form in cross section having sloping sides to facilitate the engagement of the side wall therewith and to permit ready sliding of the side wall into place.

In use, the side walls when in place coact with the front and rear walls to form an inclosed basket on all sides so that a coal bed may be built therein and confined in place because of the nature of this fuel.

Moreover, the basket is to all appearances, of the usual form and construction of a coal basket having permanently closed side walls. Should, however, an occasion require that the grate basket be utilized to hold logs or wood fuel, then the ends may be readily removed to permit of the side walls of the logs projecting beyond the basket.

In putting the side walls of the grate basket into place, this operation will be per-

formed with facility by first causing the lugs 11 to be engaged with the slot 4 in the adjacent front and rear walls, while the opposite end of the side wall is held elevated.

When the lugs 11 are in place or are in alinement with the slot 4, the elevated end carrying the recess 9 is allowed to slip down over the rib 12 until the bars 6 rest upon the grate bottom. The side wall is removed by first lifting the end with the recess 9 and finally revolving the opposite end of the side wall so as to withdraw the lugs 11 from the slot 4.

It will be appreciated from the foregoing that I have provided an improved grate basket convertible conveniently and quickly either for use in the burning of coal or logs and which will be useful for all of the purposes for which both closed and open sided baskets have been heretofore employed.

With the foregoing and other objects in view, the invention will be more fully described hereinafter, and will be more particularly pointed out in the claims appended hereto.

What is claimed is:

1. An improved grate basket comprising a slotted bottom, legs supporting the bottom, front and rear walls each composed of spaced apart bars connected at their lower ends with the bottom and rails connecting the upper ends of said bars, said front and rear walls flaring upwardly and divergently, removable side walls adapted to be fitted between the end flared portions of the front and rear walls, said end walls composed of substantially vertically extending spaced apart bars having their lower ends adapted to rest upon the bottom when in place, rails connecting the upper ends of said last mentioned bars, the end bars of said side walls being tapered at their edges to conform to the flaring conformation of the front and rear walls, one of the tapering end bars of each side wall being provided with a vertically elongated recess therein open at its bottom and being closed by the rail at the top, a pair of spaced apart curved lugs extending from the other end bar of each side wall inwardly of the grate and beyond the edge of the side wall whereby to be received in one of the slots of the front and rear walls, and inclined ribs of substantially triangular cross sectional configurations on said front and rear walls near the ends thereof in position to be received into recesses in the ends of said removable side walls, substantially as described.

2. An improved grate basket for use with either coal or logs comprising a bottom, front and rear walls rising from the bottom, supporting means for the bottom, side walls for the basket adapted to removably engage between the end portions of the front and rear walls, said front and rear walls having slots near their ends, lugs extending from the inner portions of said side walls and adapted to removably engage in the slots respectively in said front and rear walls, the end of each side wall opposite to the lugs being provided with a recess, and ribs on the front and rear walls adapted to slidingly receive the recesses in said side walls, substantially as described.

3. An improved grate basket comprising a bottom supported at an elevation and provided with front and rear walls, removable side walls each having a recess therein at one end, said recess being open at its bottom and closed at its top, ribs on the front and rear walls adapted to slidingly receive said recesses when the side walls are lowered in place, and means at the unrecessed ends of the side walls for coöperating with the front and rear walls to secure said side walls in place, substantially as described.

4. An improved grate basket comprising a bottom provided with means to support it at an elevation, front and rear walls rising from said bottom, removable side walls fitted between the ends of said front and rear walls and adapted to rest upon the bottom, said side walls provided with means at one end engaging with the front and rear walls to secure that end of the side wall in place and against lateral movement, and cooperating means between the front and rear walls and the other ends of said side walls adapted to detachably hold the side walls in place at this end and against lateral displacement, substantially as described.

PAUL F. SEMONIN.