J. R. CAMPBELL.

COMBINATION ANDIRON GRATE.

APPLICATION FILED JULY 11, 1917.

1,347,935.

Patented July 27, 1920.

2 SHEETS—SHEET 1.

Fig. 1.

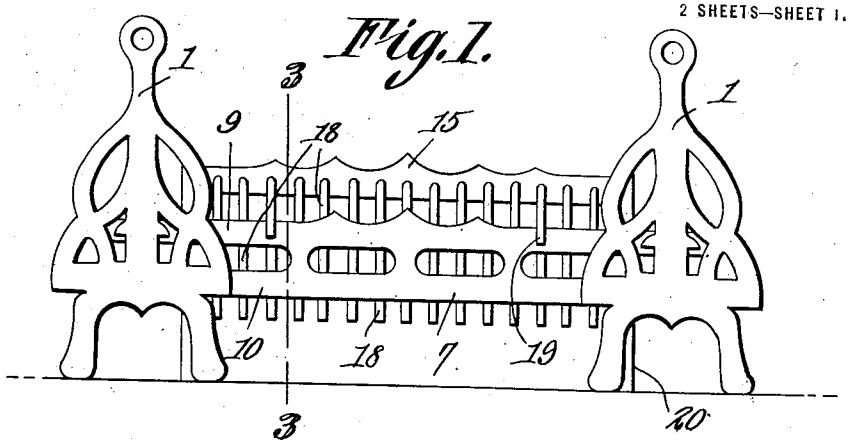


Fig. 2.

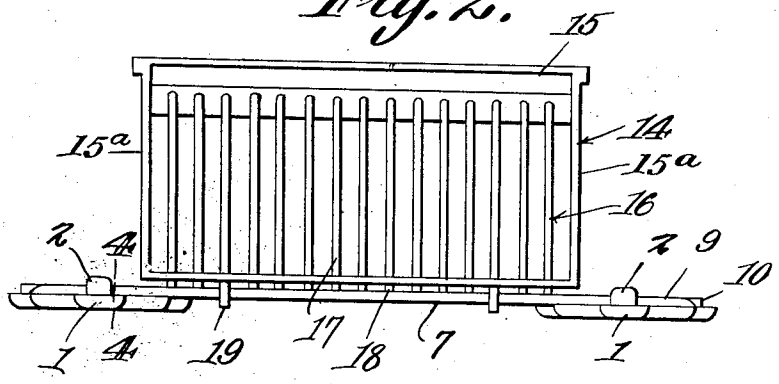


Fig. 3.

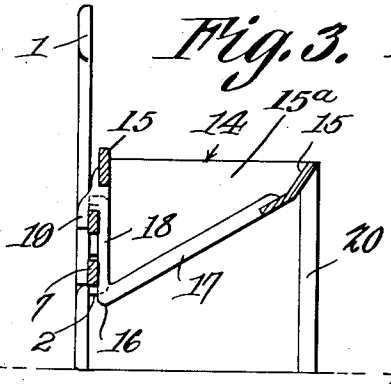
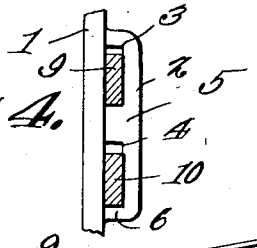


Fig. 4.



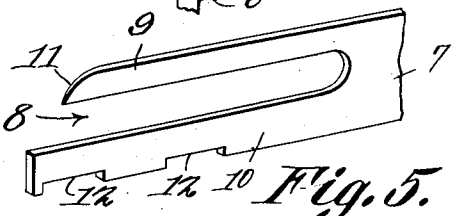


Fig. 5.

Witnesses

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2 SHEETS—SHEET 2.

Fig. 6.

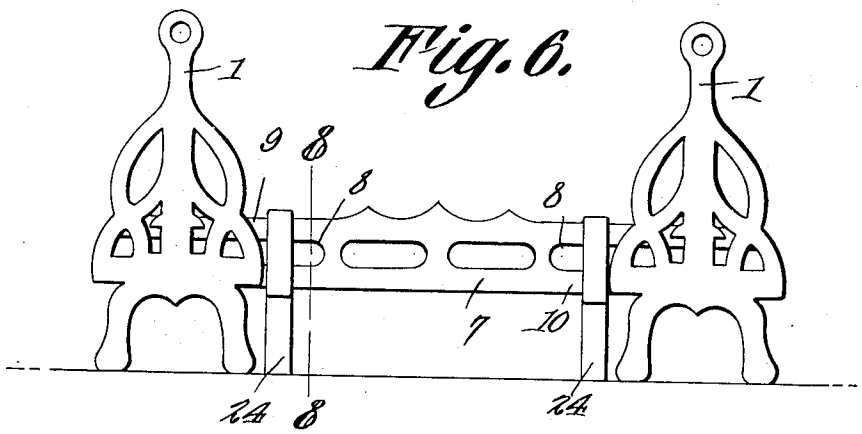


Fig. 7.

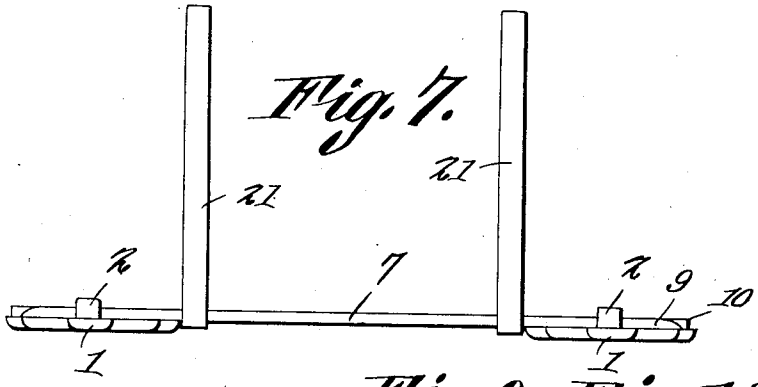


Fig. 8.

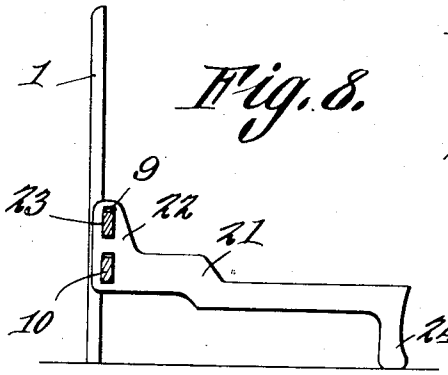


Fig. 9.

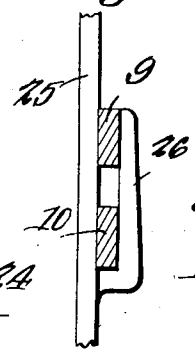
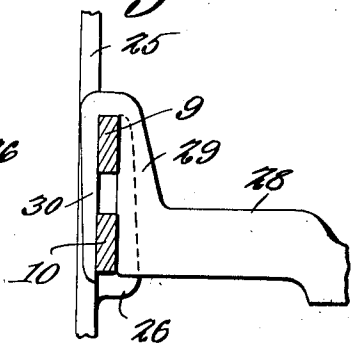


Fig. 10.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN R. CAMPBELL, OF SANFORD, NORTH CAROLINA.

COMBINATION ANDIRON-GRATE.

1,347,935. Specification of Letters Patent. Patented July 27, 1920.

Application filed July 11, 1917. Serial No. 179,919.

To all whom it may concern:

Be it known that I, JOHN R. CAMPBELL, a citizen of the United States, residing at Sanford, in the county of Lee and State of North Carolina, have invented a new and useful Combination Andiron - Grate, of which the following is a specification.

It is the object of this invention to provide a device which at the will of an operator may be used as a grate or as an andiron, to burn coal in one instance, and to burn wood in the other instance.

Another object of the invention is to provide novel means for assembling the standards adjustably with the front bar.

It is within the province of the disclosure to improve generally and to enhance the utility of devices of that type to which the present invention appertains.

With the above and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows the device in front elevation, adapted for burning coal or like fuel;

Fig. 2 is a top plan of the structure shown in Fig. 1;

Fig. 3 is a section taken approximately on the line 3—3 of Fig. 1;

Fig. 4 is a section taken approximately on the line 4—4 of Fig. 2;

Fig. 5 is a fragmental perspective showing one end of the front bar;

Fig. 6 is a front elevation showing the invention adapted for burning wood;

Fig. 7 is a top plan of the device as illustrated in Fig. 6;

Fig. 8 is a section taken approximately on the line 8—8 of Fig. 6;

Fig. 9 is a fragmental transverse section showing a modified form of the invention;

Fig. 10 is a transverse section in which there is combined with the showing of Fig. 9, a modification in the dog.

The numeral 1 denotes a pair of standards which may be constructed as desired. On their rear face, the standards 1 are supplied with a lug 2 as shown in Fig. 4, the lug on each standard having an upper opening 3 and a lower opening 4 defining an intermediate rib 5 and a lower rib 6.

The numeral 7 marks a front bar having a slot 8 in its ends, the slot defining an upper finger 9 and a lower finger 10. At its end and upon its upper edge, the upper finger 9 is beveled as shown at 11. In the lower edge of the finger 10, a plurality of notches or seats 12 are fashioned.

The upper finger 9 is received in the opening 3 of the lug 2, and the lower finger 10 is received in the lower opening 4 of the lug, the finger 9 resting on the intermediate rib 5, and the finger 10 resting on the lower rib 6, the upper edge of the rib 6 being received in one of the seats 12. It will be observed that the construction is such that the standards 1 may be adjusted toward and away from each other.

The invention includes a fuel support which may be a grate basket 14 including a top frame 15 comprising end walls 15ª, and grate bars 16 connecting the front and rear portions of the frame 15. The grate bars 16 may include inclined base portions 17 and upright front portions 18, the front portions 18 of the grate bars having hooks 19 engaged with the upper finger 9 of the front bar 7, in a way which will be understood clearly when Figs. 1, 2 and 3 of the drawings are examined.

The grate basket 14 is supported at its forward side by the bar 7, the grate basket being supported at its rear side by means of legs 20 depending from the rear portion of the frame 15 of the grate basket.

When the device is set up as above described, it is adapted to burn coal or like fuel.

Passing to Figs. 6 to 8, the fuel support is shown in the form of dogs or bars 21 provided at their forward ends with enlarged heads 22 having openings 23 receiving the fingers 9 and 10 of the front bar 7, the construction being such that the dogs 21 may be adjusted toward and away from each other in a horizontal direction. The forward ends of the dogs 21 are supported on the bar 7 as above described, and the rear ends of the dogs are supported by means of depending legs 24.

When the structure is arranged as last above described, it is adapted for the burning of wood.

In Fig. 9 of the drawings, a modification of the invention is shown. The numeral 25

denotes the standard and the numeral 26 denotes a lug which, in the present instance, is in the form of an upwardly projecting hook. In Fig. 10 the dog is shown at 28 and is provided at its forward end with an enlarged head 29 having a slot or opening defining a hook 30 which is engaged with the fingers 9 and 10 of the bar 7.

Since the upper finger 9 of the bar 7 is shorter than the lower finger 10, and since the upper finger 9 is beveled as shown at 11, the mounting of the fingers on the lugs is facilitated, notably when the lug has two holes as shown in Fig. 4. The construction also facilitates connection between the parts of the device when, for instance, there are two holes in the fuel support as shown in Fig. 8.

Having thus described the invention, what is claimed is:—

1. A device of the class described, comprising standards having an outstanding lug upon their rear face; a bar having upper and lower fingers at its ends, the fingers being received in the lug, the lower edge of the upper fingers being smooth, and the lower edge of the lower fingers having spaced seats in any of which the lower portion of the lug may be received for adjustment; and a fuel support detachably engaged with the bar.

2. A device of the class described comprising standards having an outstanding lug upon their rear face; a bar provided at its ends with upper and lower fingers, the fingers being received in the lug, the lower fingers being longer than the upper fingers and having spaced seats in their lower edge, in any of which seats the lower portion of the lug may be received for adjustment, the end of the upper fingers being beveled; and a fuel support detachably engaged with the bar.

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

JOHN R. CAMPBELL.

Witnesses:
H. A. MATHIS,
GEO. J. SHULTZ.