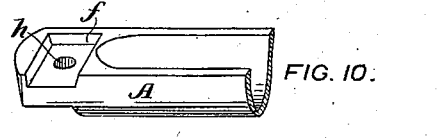
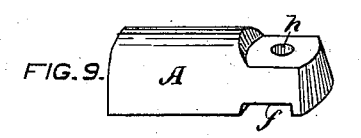
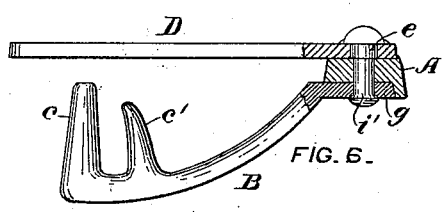
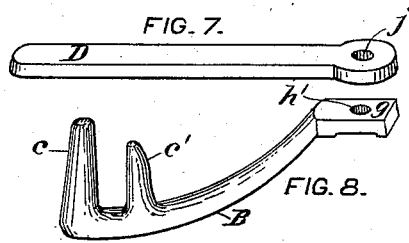
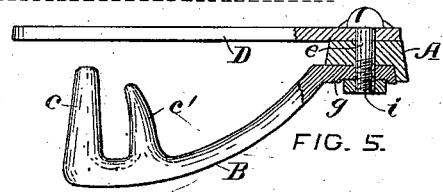
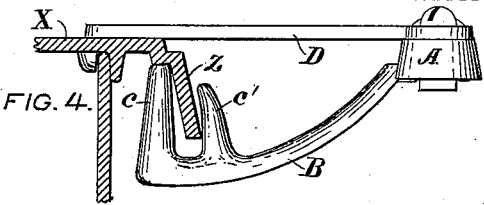
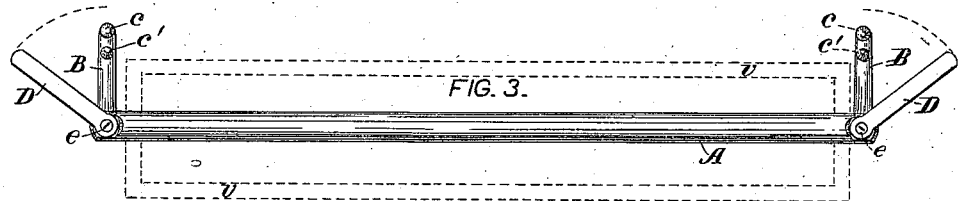
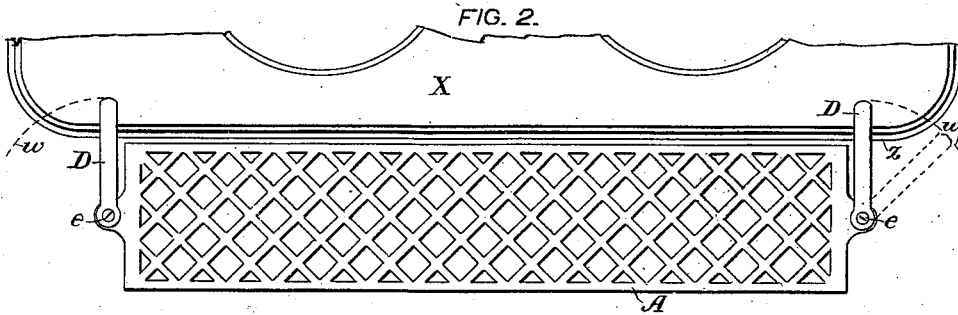
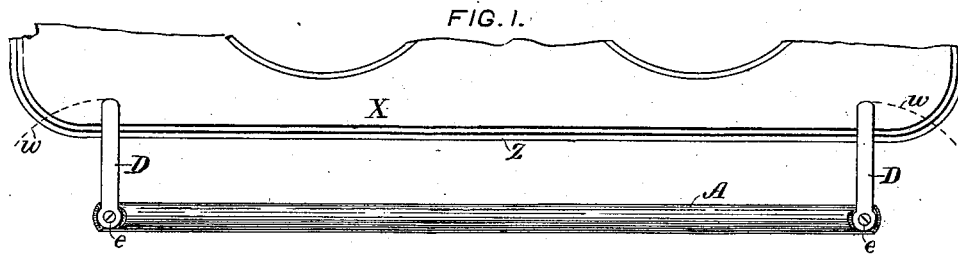


G. HAYNER.
Shelf Attachment for Cooking-Stoves.

No. 207,807.

Patented Sept. 10, 1878.



WITNESSES:

James H. Slade
James T. Goodfellow

INVENTOR:

George Hayner
by *Austin F. Park*
Attorney in fact.

UNITED STATES PATENT OFFICE.

GEORGE HAYNER, OF LANSINGBURG, NEW YORK.

IMPROVEMENT IN SHELF ATTACHMENTS FOR COOKING-STOVES.

Specification forming part of Letters Patent No. 207,807, dated September 10, 1878; application filed August 20, 1878.

To all whom it may concern:

Be it known that I, GEORGE HAYNER, of Lansingburg, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Rod, Rack and Shelf Attachments for Cooking-Stoves and Ranges, of which the following is a specification, reference being had to the accompanying drawings.

Shelves, rods, or racks have been heretofore detachably secured by various devices to or upon the overhanging portion of the top plates of cooking-stoves or ranges; and my present invention relates to a certain new and cheap device for that purpose, which does not require any alteration in, or permanent addition to, the stove or range, nor the use of any screw-clamp, and which is attached and applied only to the outer portion of the top plate.

One part of this invention consists of a rod, shelf, or rack having at one side rigid lateral arms formed with upwardly-projecting end lugs, adapted to embrace the downwardly-extended rim of the ordinary overhanging portion of the top plate of a cooking-stove or range, and also having upper arms pivoted to and so as to turn horizontally upon the said rod, shelf, or rack, and tightly over the upper surface of the overhanging part of the said top plate, so as to thereby secure the said lugs of the lower arms upon the downwardly-extending rim of the top plate, and thus firmly fasten to the top plate the said rod, shelf, or rack, in such manner that the latter can be in a moment detached by merely turning the said pivoted upper arms horizontally off from over the top plate.

As regards the aforesaid part of this invention, the lower arms of the said attachment can be cast or formed in one and the same piece of metal with the rod, rack, or shelf; but a further part of this invention consists in constructing the lower arms in separate pieces from the rod, shelf, or rack, and forming and securing them together substantially as hereinafter described, whereby the attachment can be made at a much cheaper rate, and better, than by casting the rod, rack, or shelf and lower arms all in one piece.

In the aforesaid drawing, Figures 1 and

2 are plans of two of my improved attachments secured upon the overhanging part of a portion of the top plate of a cooking-stove or range. Fig. 3 is a plan of the same rod attachment shown in Fig. 1 removed from the top plate, and in condition to be secured thereto. Fig. 4 is an end elevation, on a larger scale, of the same rod attachment secured to the overhanging portion of the top plate of a stove or range, the same as in Fig. 1. Figs. 5 and 6 are end elevations, partly in section, of modifications of the same rod attachment; and Figs. 7, 8, 9, and 10 are perspective views of detached parts of the same.

A is a rod, rack, or shelf, and B B are lower arms extending rigidly therefrom at one side, and each having two upwardly-projecting lugs, *c c'*, adapted to embrace and fit upon the ordinary downwardly-extended rim, Z, of the overhanging portion of the top plate, X, of a range or cooking-stove, substantially as shown in Fig. 4. D D are upper arms, secured by pivots *e* to the said rod, rack, or shelf A, and adapted to be turned laterally thereon away from over the arms B B or the top plate, X, as indicated by dotted lines *w w* in Figs. 1 and 2, and in full lines in Fig. 3, so as to permit the lugs *c c'* to be placed upon the rim Z, as shown in Fig. 4, and removed therefrom, as in Fig. 3, and also adapted to be turned back tightly over and upon the top plate, X, while the lugs *c c'* embrace the rim Z, as in Fig. 4, and thereby secure the rod, rack, or shelf A to the outer portion of the top plate with sufficient firmness for practical use.

In carrying out this invention, I commonly prefer to make the rod, rack, or shelf A by casting it of cast-iron, and afterward coating it with enamel or nickel-plating when desired; and it is evident that the arms B B, with their lugs *c c'*, can be cast in one and the same piece with the rod, rack, or shelf. I generally prefer, however, to cast the rod, rack, or shelf A and the arms B B separate, and the rod, shelf, or rack with recesses *f*, Figs. 9 and 10, and the arms B with ends *g*, Fig. 8, adapted to fit into the recesses *f*, and both with coincident perforations *h h'*, and fasten them together by screw-bolts *i*, Fig. 5, or rivet-bolts *v*, Fig. 6, extending through the said perforations *h h'* in the arms B and part A, and

through sockets *j* in the arms D, so as to pivot the latter, all substantially as shown in Figs. 5 and 6. I also generally prefer to make the arms B, as well as the arms D, of malleable cast-iron, so that the lugs *c c'* thereon can be bent to fit upon somewhat different-shaped downwardly-extending rims of the top plates of various cooking-stoves and ranges. Also, in carrying out this invention, I sometimes prefer to make the part A in the form of a rack, consisting of two, three, or more parallel rods united at their ends by cross-bars, as indicated by dotted lines at *v* in Fig. 3.

What I claim as my invention is—

1. The rod, rack, or shelf, A having the lower arms, B B, formed with the upwardly-

projecting lugs *c c'*, and the upper arms, D D, pivoted to turn laterally upon the said rod, rack, or shelf, substantially as described.

2. The rod, rack, or shelf A, having the arms D D pivoted thereto, and the arms B B, formed with lugs *c c'* and separate from the said rod, rack, or shelf, and secured to the latter by fastening devices, substantially as described.

In testimony whereof I hereunto set my hand in the presence of two subscribing witnesses this 17th day of August, 1878.

GEORGE HAYNER.

Witnesses:

JAMES H. SLADE,

JAMES T. GOODFELLOW.