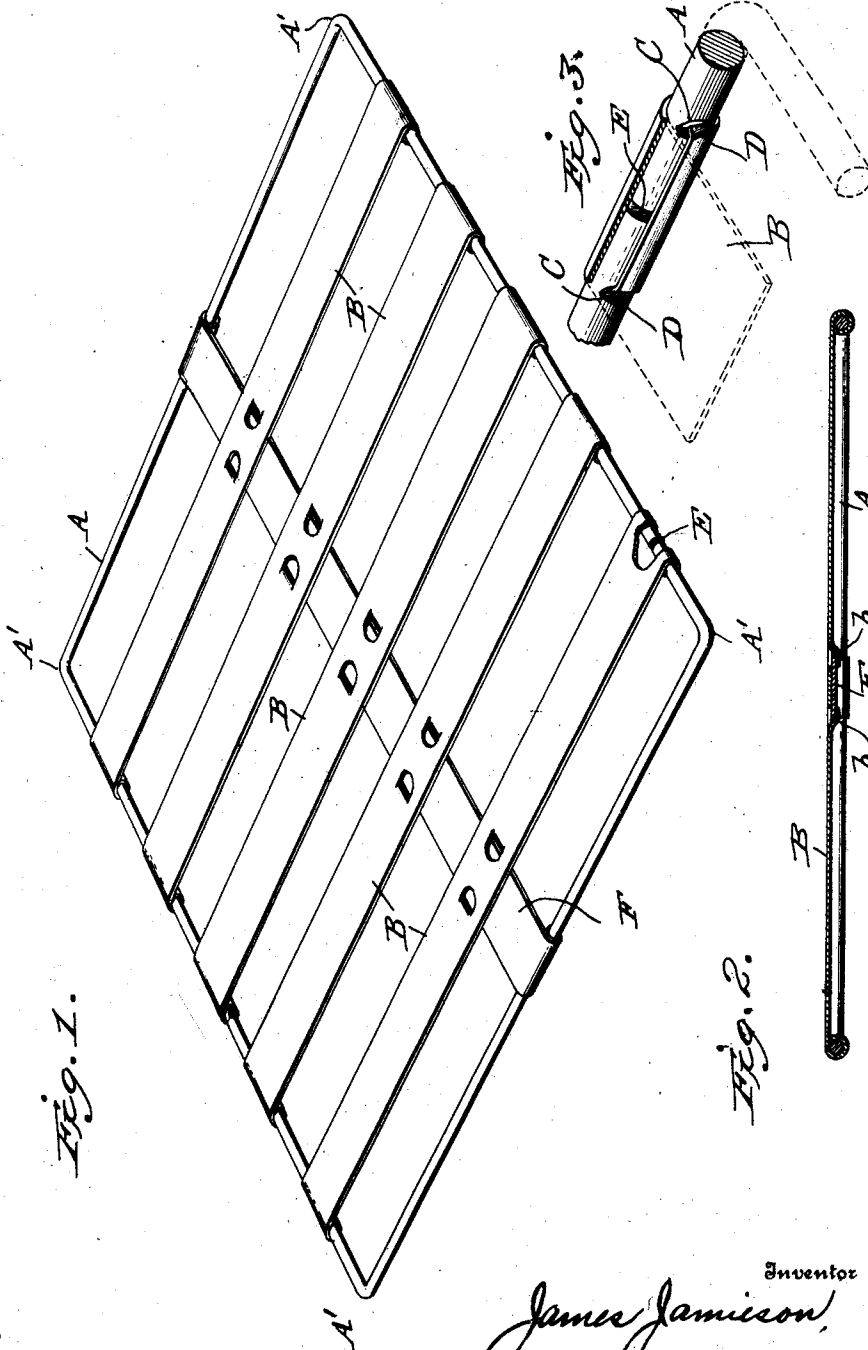


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J. JAMIESON.
SHELF GRATING FOR STOVES, &c.
APPLICATION FILED OCT. 4, 1907.



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UNITED STATES PATENT OFFICE.

JAMES JAMIESON, OF HAMILTON, ONTARIO, CANADA.

SHELF-GRATING FOR STOVES, &c.

No. 879,268.

Specification of Letters Patent.

Patented Feb. 18, 1908.

Application filed October 4, 1907. Serial No. 395,936.

To all whom it may concern:

Be it known that I, JAMES JAMIESON, of Hamilton, in the county of Wentworth, Province of Ontario, Canada, a subject of the
5 King of Great Britain, have invented certain new and useful Improvements in Shelf-Gratings for Stoves, &c.; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had
10 to the accompanying drawings, forming a part of this specification, and to the figures and letters of reference marked thereon.

This invention relates to metal gratings primarily adapted for use in the ovens of
15 cook stoves, ranges etc., to form supporting shelves, the objects of the invention being to provide a light, strong and durable grating, cheap to manufacture and not liable to be broken by rough usage, unequal and sudden
20 changes in temperature etc.

The invention consists in a grating embodying a peripheral frame and bridging strips assembled and united together in the novel manner hereinafter described and
25 pointed out particularly in the appended claims.

In the accompanying drawings—Figure 1 is a perspective view of a grating or shelf embodying the present invention. Fig. 2 is
30 a sectional view taken longitudinally of one of the strips. Fig. 3 is a detail sectional perspective view showing the means for uniting the ends of the peripheral frame.

Similar letters of reference in the several
35 figures indicate the same parts.

The peripheral frame lettered A is formed of a wire rod preferably circular in cross section and bent to form the corners or angles A' of the shelf or grating. The ends of the
40 rod are abutted at some point in one of the straight sides and preferably near one corner and in a position to be covered and inclosed by one of the bridging strips for a purpose which will presently appear.

Extending from side to side and bridging the peripheral frame are a parallel series of flat relatively thin metal strips B each having its ends bent to encircle the edge rod A whereby the strips will be firmly united
50 thereto. As before stated the end of one of said strips incloses the meeting ends of the edge rod, and as shown in Fig. 3 the rod is notched and V-shaped recesses C are formed at points in proximity to the ends, a portion,

preferably the edges of the inclosing sleeve, 55 formed by the end of the bridging strip, being swaged into the notches as at D, thereby firmly connecting the ends together. By locating the joint in the edge rod in one of the straight sides but near one corner (the joint 60 being indicated by the letter E in Fig. 1) the chances of a severe bending strain ever occurring right at the joint are greatly reduced.

To brace and unite the parallel strips B and connect the same with the parallel sides 65 of the grating one or more transverse strips F extend across the same. The strip F is preferably similar to the strips B and is united to the latter by a series of lugs or ears b struck from the central portions of the strips 70 B and bent around the edges of the strip F so as to closely and firmly embrace the same.

The whole structure is simple, may be manufactured cheaply and easily and with the sides dimensioned to fit in any oven 75 without changing the formation of the structure, it only being necessary to increase or diminish the number or length of the strips and to proportion the peripheral frame accordingly. 80

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:

1. A shelf grating for the purpose described, embodying a substantially rectangular peripheral frame formed of a single metal rod 85 with the ends connected together, flat metal bridging strips with the ends encircling opposite sides of the peripheral frame and a transverse strip engaging the bridging strips and having its ends connected with the peripheral frame; substantially as described. 90

2. A shelf grating for the purpose described, embodying a substantially rectangular peripheral frame formed of a metal rod with its 95 ends located in one of the straight sides and a series of flat strip metal bridging strips with the ends encircling opposite sides of the peripheral frame, one of said strips encircling both ends of the rod to connect the same. 100

3. A shelf grating for the purpose described, embodying a substantially rectangular peripheral frame formed of a metal rod with its ends located in one of the straight sides and having notches in proximity to said ends, 105 and a series of flat strip metal bridging strips with their ends encircling opposite sides of the peripheral frame, one of said strips encir-

cling both ends of the rod and being swaged into the notches therein to connect the said ends.

4. A shelf grating for the purpose described embodying a peripheral frame formed of a metal rod, a series of flat strip metal bridging strips with their ends encircling opposite sides of the peripheral frame, a

transverse flat metal strip connected with the peripheral frame and lugs connecting the 10 bridging and transverse strips.

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