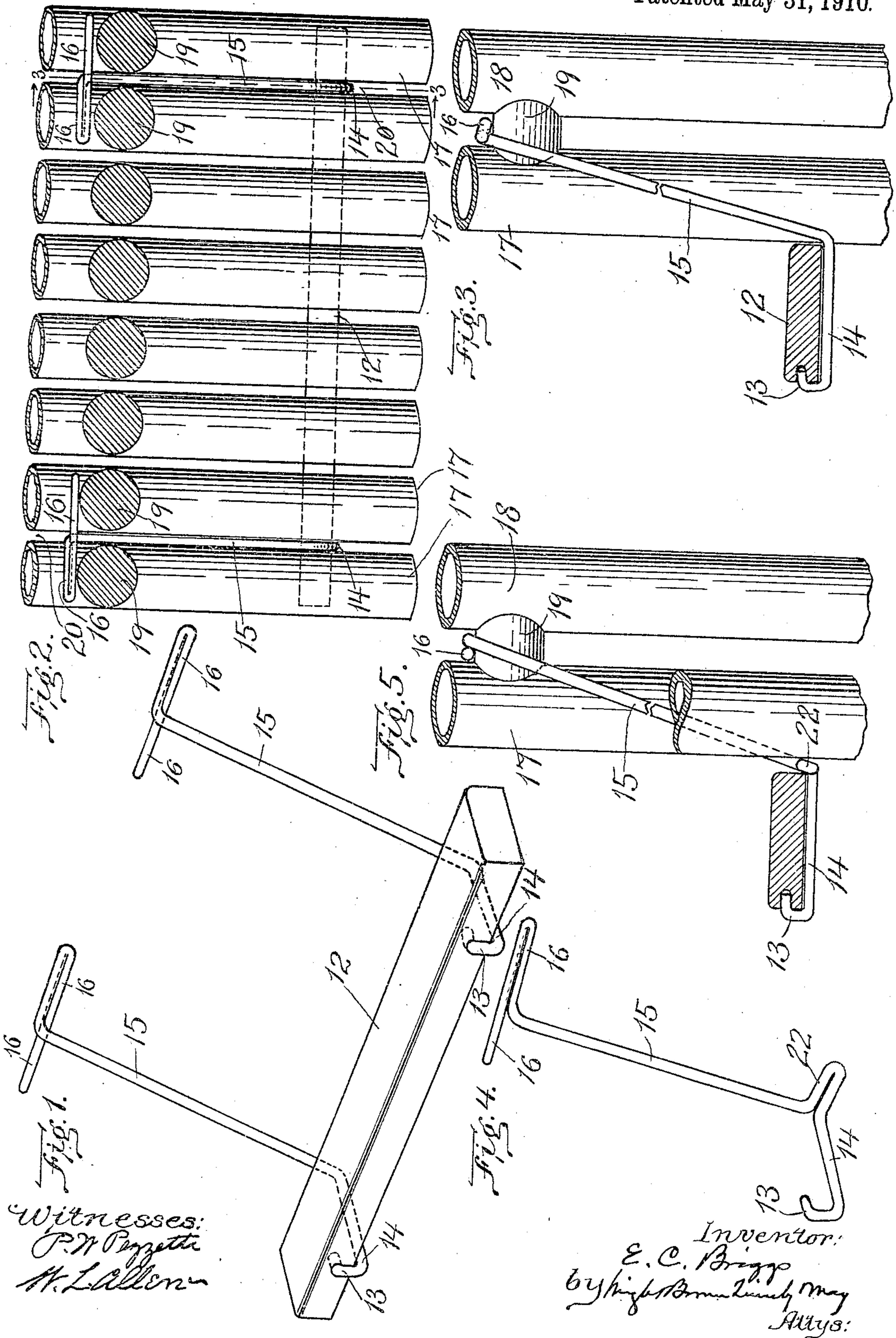


E. C. BRIGGS.
 FOOT REST FOR RADIATORS.
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959,917.

Patented May 31, 1910.



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UNITED STATES PATENT OFFICE.

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FOOT-REST FOR RADIATORS.

959,917.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ELMER C. BRIGGS, of Wareham, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Foot-Rests for Radiators, of which the following is a specification.

This invention has for its object to provide a simple and inexpensive foot-rest adapted to be detachably applied to a house-heating radiator which has connecting necks between the outer and inner members of its sections.

The invention is embodied in a foot-rest attachment comprising two supporting arms, each having means at its outer end for separably engaging a shelf, and two oppositely projecting ears at its inner end adapted to bear simultaneously on the inner sides of the front members of two adjacent radiator sections, and on the necks connecting said members with the inner members of the same sections, and a shelf adapted to separably engage the outer end portions of said arms and bridge the space between them, the construction being such that when the shelf and arms are assembled on a radiator, the shelf is supported horizontally at the front of the radiator, and at such height above the floor that the shelf is adapted to form a rest capable of supporting a person's feet in contact with or in close proximity to the front of the radiator.

Of the accompanying drawings, forming a part of this specification,—Figure 1 represents a perspective view of a foot-rest attachment embodying my invention. Fig. 2 represents a rear view of portions of the front members of the sections of a radiator, the necks connecting said front members with the inner members being shown in section. Fig. 3 represents a section on line 3—3 of Fig. 2. Fig. 4 represents a perspective view of a shelf-supporting arm having an ear adapted to bear on the front of a radiator. Fig. 5 represents a view corresponding to Fig. 3, showing the arm represented in Fig. 4 connected with a shelf, and bearing on the front of the radiator.

The same reference characters indicate the same parts in all the figures.

My improved foot-rest comprises two independent supporting arms which are preferably made of stout wire, and a shelf adapted to be separably engaged with the outer end portions of said arms, and to

bridge the space between the same, each arm having means at its outer end for suitably confining the shelf, as hereinafter described.

Each arm includes a hook 13 constituting the outer end portion of the arm, a shelf seat 14 adjacent to said hook, and a shank portion 15 which is the main portion of the arm, the seat portion standing at an obtuse angle with the shank or main portion, so that when in use the seat portion is substantially horizontal, while the shank portion is inclined. The inner end of the shank portion is bent to form two ears 16, 16, which project in opposite directions therefrom.

The shank portion and seat supporting portion are in the same plane, which is at right angles with the ears, so that when the ears are seated, as hereinafter described, on necks and outer members of the radiator, the shank portion is inclined downwardly to the front of the radiator, and the seat supporting portion projects in a substantially horizontal direction from the front of the radiator.

The said shelf and arms constitute a foot-rest adapted to be applied to a radiator composed of sections, each having a vertical outer member 17, a vertical inner member 18, and a neck 19 connecting said members between their upper and lower ends. The vertical members of each section are separated from the vertical members of the adjacent section by narrow spaces 20. The ears 16 of the arms are adapted to pass through said spaces when the ears are held in a vertical position. After the ears have been passed through the spaces between the front members 17 of two adjacent sections, the arm of which said ears form a part is given a quarter turn, bringing the ears into a horizontal position, and causing them to bear simultaneously upon the inner sides of two members 17 and upon two of the necks 19, as shown in Fig. 2, said necks therefore supporting the ears against downward movement, while the members 17 support the ears against forward horizontal movement. The arms are separably engaged with the radiator in the manner described before the shelf 12 is engaged with the outer portions of the arms, the engagement of the shelf with the arms being effected by inserting the outer edge of the shelf in the hooks 13 and bringing the under side of the shelf to a bearing on the seats 14. This operation

causes the shelf to connect the arms, the inner edge of the shelf bearing against the front sides of the outer radiator members 17. The shelf thus interposed between the outer ends of the arms and the front of the radiator holds the said outer ends projected from the front of the radiator, the inclined shank portions 15 of the arms extending diagonally from the supporting necks 19 to the front of the radiator at a lower point, as indicated in Fig. 3.

It will be seen that there is a reciprocal action between the arms and the shelf, the shelf holding the outer ends of the arms including the said portions 14 projected from the front of the radiator, and the arms in turn supporting the shelf horizontally. The length of the arms is such that the shelf is located at a convenient height above the floor to enable a person's feet to be comfortably deposited on the shelf and held against the front of the radiator.

The shelf may be made of any length desired, its separable engagement with the arms enabling the arms to be spaced at any desired distance apart within the limits of the length of the radiator.

In the embodiment of my invention shown in Figs. 1, 2, and 3, the shelf bears against the front of the radiator, and not only prevents the arms from swinging inwardly between the vertical members of the radiator, but also prevents the arms from turning in the direction required to disengage their ears from the parts of the radiator on which they bear.

In Figs. 4 and 5, I show a different embodiment of the invention, in which each supporting arm is provided with an ear 22 adapted to bear on the outer side of one of the outer members 17 of the radiator, so that when the ears 16 are engaged as described with the radiator, the arm is supported conjointly by the ears 16 and 22, a bearing of the shelf on the outer side of the radiator being therefore unnecessary.

Each of the described embodiments of my invention constitutes a knock-down foot-rest adapted to be operatively mounted on a radiator by first separately engaging the arms with the radiator, and then engaging the shelf with the arms.

The assemblage of the parts of the foot-rest attachment on a radiator causes separ-

able bearings of the attachment on the radiator which prevent displacement of the attachment from its operative position, either in horizontal inward direction, horizontal outward direction, or a downward direction. The bearing of either the shelf 12 or the arms 22 on the front of the radiator prevents horizontal inward displacement of the attachment. The bearing of the ears 16 against the inner surfaces of the radiator, namely: The inner sides of the members 17 between which the arms are inserted prevents horizontal outward displacement of the attachment. The bearing of the ears 16 on the corresponding necks 19 of the radiator prevents downward displacement of the attachment. The relative arrangement of the parts of the arms is such that the operation of seating the ears 16 on the inner sides of the members 17, and on the necks 19 brings the shelf-supporting portions 14 into their shelf engaging positions. The separability of the shelf from the arms and the independence of the arms of each other, enables the parts to be readily separated and the attachment to be readily removed from the radiator, no special fastening means being required or employed.

I claim:

1. A foot rest attachment for radiators comprising a shelf, two independent arms each having one end bent to support said shelf, the other end of each arm being bent at an angle to said arm and then bent back upon itself to form lateral ears extending parallel with said shelf and adapted to engage the sections of a radiator.

2. A foot rest attachment for radiators comprising a shelf, two independent arms each having one end bent to support said shelf, the other end of each arm being bent at an angle to said arm and then bent back upon itself to form lateral ears extending parallel with said shelf and adapted to engage the sections of a radiator, each arm being also provided with lateral bearing ears adjacent the shelf supporting portion.

In testimony whereof I have affixed my signature, in presence of two witnesses.

ELMER C. BRIGGS.

Witnesses:

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E. A. DUSTIN.