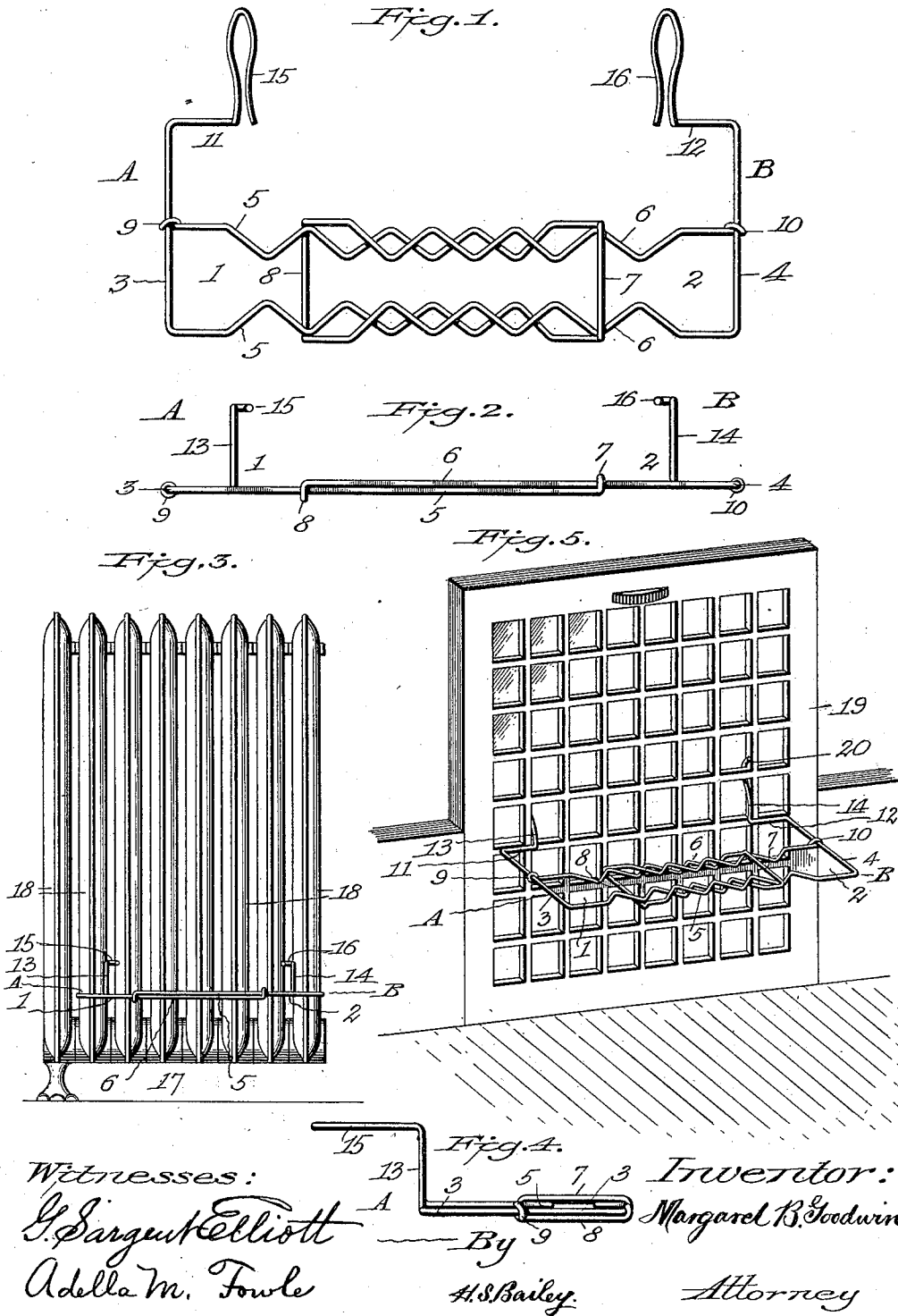


M. B. GOODWIN.
 EXTENSIBLE FOOT REST FOR RADIATORS AND REGISTERS.
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1,004,775.

Patented Oct. 3, 1911.



Witnesses:

J. Sargent Elliott
 Adella M. Fowle

Fig. 4.
 15 13 3 5 7 3
 A 9 8
 By H. S. Bailey.

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UNITED STATES PATENT OFFICE.

MARGARET B. GOODWIN, OF DENVER, COLORADO.

EXTENSIBLE FOOT-REST FOR RADIATORS AND REGISTERS.

1,004,775.

Specification of Letters Patent.

Patented Oct. 3, 1911.

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To all whom it may concern:

Be it known that I, MARGARET B. GOODWIN, a citizen of the United States of America, residing in the city and county of Denver and State of Colorado, have invented a new and useful Extensible Foot-Rest for Radiators and Registers, of which the following is a specification.

This invention relates to improvements in extensible foot rests for radiators and registers.

The objects of the invention are: To provide a foot rest adapted to be detachably secured either to a hot air register or to a radiator, and that may be varied in length to meet conditions. Further, to provide a two-part extensible foot rest for radiators and registers, which is also adapted to form a shelf or support for various articles, the device being so arranged that it will not sag under any practicable weight. These objects are accomplished by the device illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the improved extensible foot rest, Fig. 2 is an edge or front view of the same, Fig. 3 is a front view of the foot rest attached to an ordinary radiator, Fig. 4 is an end view of the foot rest, and Fig. 5 is a perspective view showing the adaptation of the foot rest to an ordinary hot air register.

Referring to the accompanying drawings: A and B indicate the two parts or sections of the improved foot rest, which are substantially identical in construction. The sections are each made from a single piece of wire and comprise horizontal members 1 and 2 respectively, which are substantially rectangular or oblong in form and are slidably mounted one upon the other to form the foot rest proper, as will appear by reference to the drawings. In forming the horizontal members 1 and 2, the wire is bent to provide outer end members 3 and 4 respectively, long side members 5 and 6 respectively, and inner end members 7 and 8 respectively, the end member 7 being bent to extend above the plane of the side members 5, while the end member 8 is bent to depend below the plane of the side members 6, for a purpose to be presently shown. The long sides of the members 1 and 2 are bent in to zig-zag form, as shown, which not only gives the said members individually, greater rigidity, but when the members are slidably

mounted upon each other, as shown in Fig. 1, the said zig-zag sides overlap and bear upon each other so as to form a structure capable of sustaining a heavy strain or weight without sagging.

The wires forming the rear sides of the members 1 and 2 are twisted around the end members 3 and 4 respectively, as shown at 9 and 10, and thus secured to them, and the end members extend back a suitable distance and terminate in inwardly projecting portions 11 and 12, which terminate in upward vertical extensions 13 and 14, which in turn terminate in horizontally disposed rearwardly extending spring yoke members 15 and 16, which, when the foot rest is used in connection with a radiator, are adapted to be sprung in between any two of its upright sections.

In Fig. 3 a radiator 17 is illustrated with the improved foot rest secured thereto by the yoke members 15 and 16, which are sprung in between pairs of the vertical sections 18, of the said radiator, and when thus secured, the parts 11 and 12, of the foot rest, form stops which bear against the outer edges of the radiator sections and hold the rest in its proper position.

The foot rest is provided with the spring yokes 15 and 16 only when it is used in connection with a radiator. In Fig. 5 the device is shown in connection with a register 19, and when thus used, the spring yokes 15 and 16 are dispensed with and the upright members 13 and 14, terminate in slightly bent or hooked ends 20, which are adapted to engage the grille work of the register and hold the rest securely in position.

By reference to Figs. 1 and 2, it will be seen that the end 8, of the member 2 of the rest is beneath the zig-zag bars 5 of the member 1, while the end 7 of the member 1 is above the zig-zag bars 6 of the member 2; thus the two members are held in sliding engagement and the rest may be extended until the ends 7 and 8 are within a short distance of each other.

In assembling the parts of the foot rest, the inner end of each member is passed over the yoked or hooked end, as the case may be, of the other member and the members are slid one upon the other, until the rest is extended to the desired length relatively to the intervals between the radiator sections, when used in connection therewith. The rest is then tilted or inclined slightly in a

lengthwise direction, and the spring yokes 15 and 16, are pressed in between adjacent sections of the radiator, after which the higher end is pushed down until the rest is in a horizontal position, when the yokes will bear with such force against the sides of the said radiator sections as to hold the rest securely in position.

When the device is used in connection with registers, the bent or hooked ends 20, are passed through convenient openings in the register and are caused to engage portions of the grille work, as shown in Fig. 5, so as to hold the rest against downward movement, the parts 11 and 12 bearing against the front of the register and holding the rest in its proper position.

The construction of the device is substantially the same, both for radiators and registers, the only difference being in the character of attaching ends, which are bent either to form the spring yokes or the hooked ends, as may be required.

The device as illustrated is light, but capable of sustaining a heavy pressure, owing to the manner in which the parts bear upon each other, and it is quickly adjusted and secured in place.

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

1. An extensible foot rest as specified, comprising interlocking members, each of which is formed of a single piece of wire, each member having ends and zig-zag sides which are slidable one upon the other, and rearward extensions of said members, which terminate in frictional attaching devices.

2. An extensible foot rest as specified, comprising independent members each made of a single piece of wire and consisting of

rectangular portions, the outer ends of which are extended rearward and upward and terminate in spring yoke shaped members, while their sides are of zig-zag form, said members being interlocked so as to be slidable one upon the other.

3. An extensible foot rest as specified, consisting of independent, interlocked wire members, each comprising rectangular portions, the sides of which are of zig-zag form and are slidable one upon the other, the inner end of one member being above the zig-zag sides of the other member, and the inner end of the said other member being below the zig-zag sides of the first member, while the outer ends of the said members extend rearwardly and inwardly and upwardly, and terminate in horizontally disposed, rearwardly extending spring yokes.

4. An extensible foot rest as specified, comprising independent wire members, having rectangular portions, the sides of which are of zig-zag form, the inner end of one of said rectangular portions being above the plane of its sides, while the inner end of the other rectangular portion is below the plane of its sides, their outer ends being extended rearward and then inward and then upward, and terminate in horizontally disposed rearwardly extending spring yokes, said members being interlocked to slide one upon the other by passing the outer end of each through the rectangular portions of the other, and drawing their outer ends apart.

In testimony whereof I affix my signature in presence of two witnesses.

MARGARET B. GOODWIN.

Witnesses:

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