

A. J. BEATON.
RADIATOR FOOT RAIL.
APPLICATION FILED JULY 14, 1909.

956,029.

Patented Apr. 26, 1910.

Fig. 1.

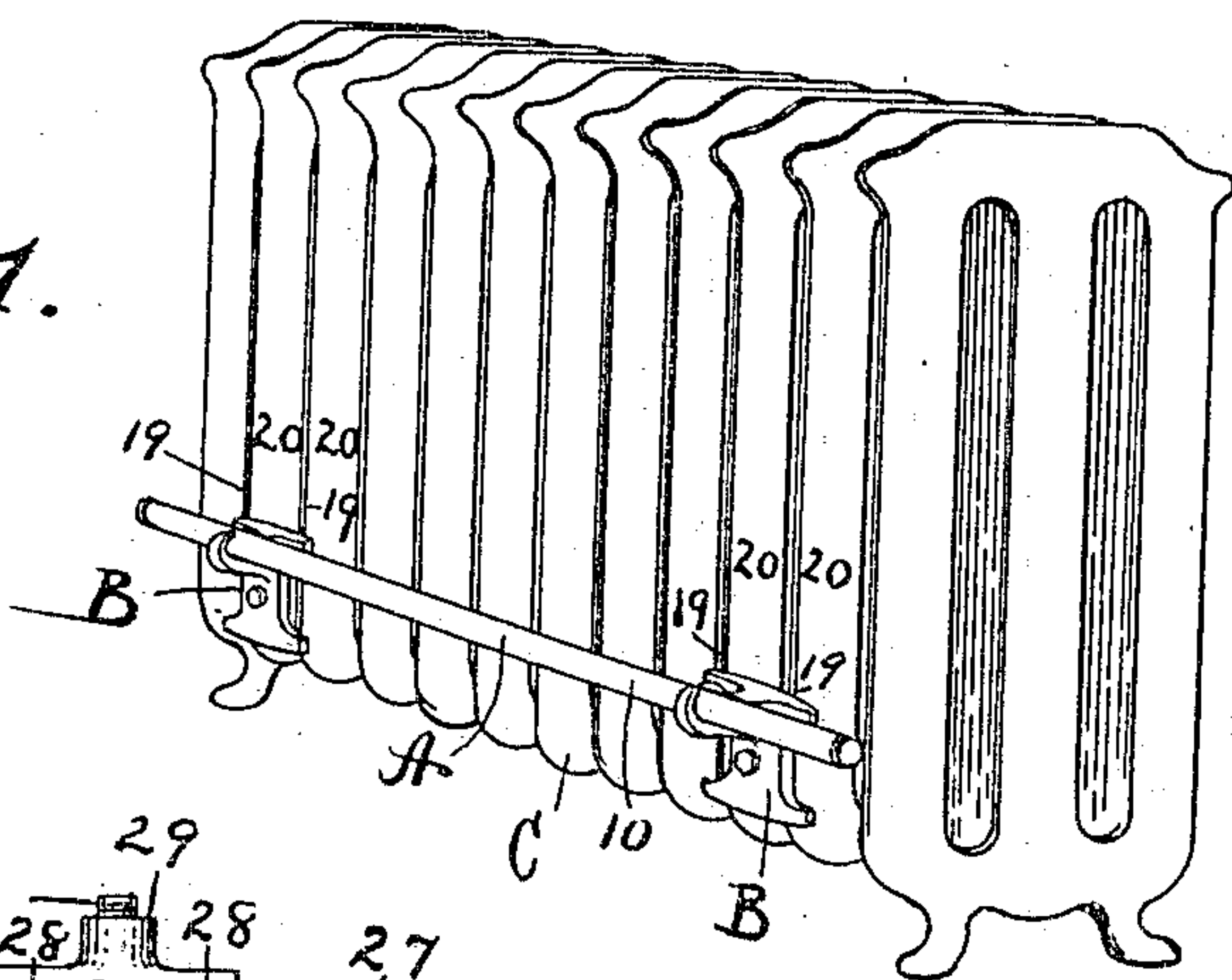


Fig. 2.

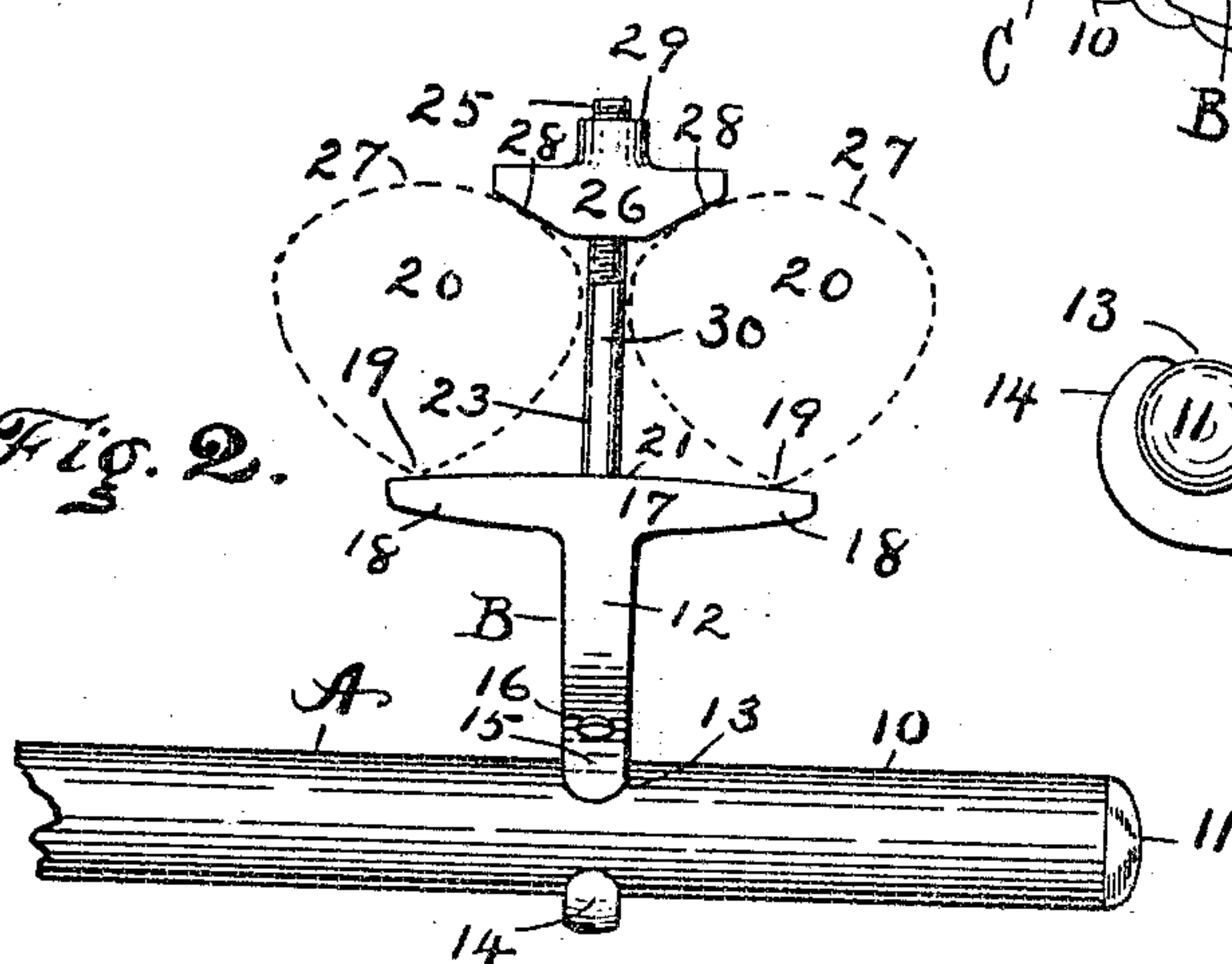


Fig. 3.

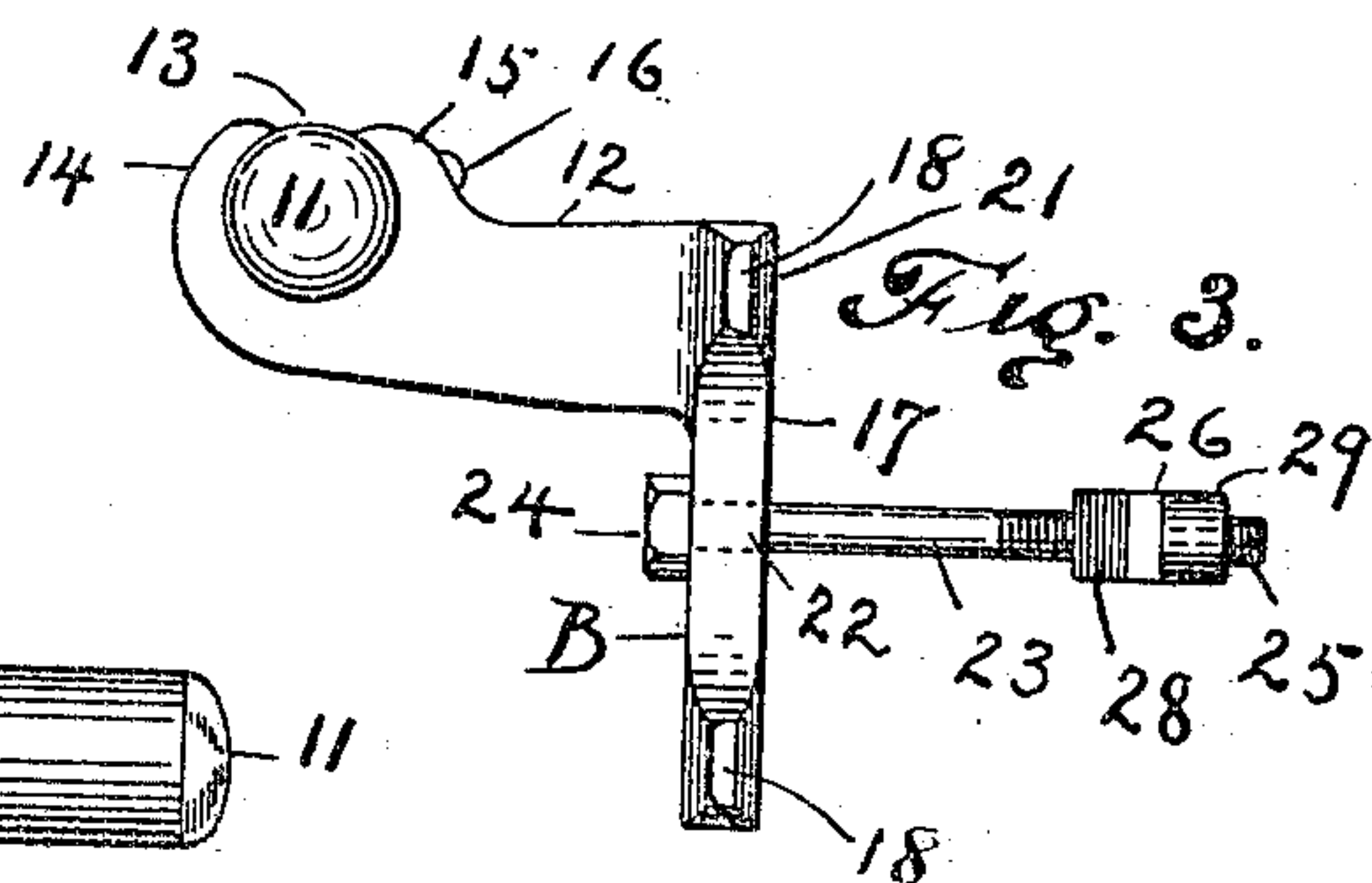
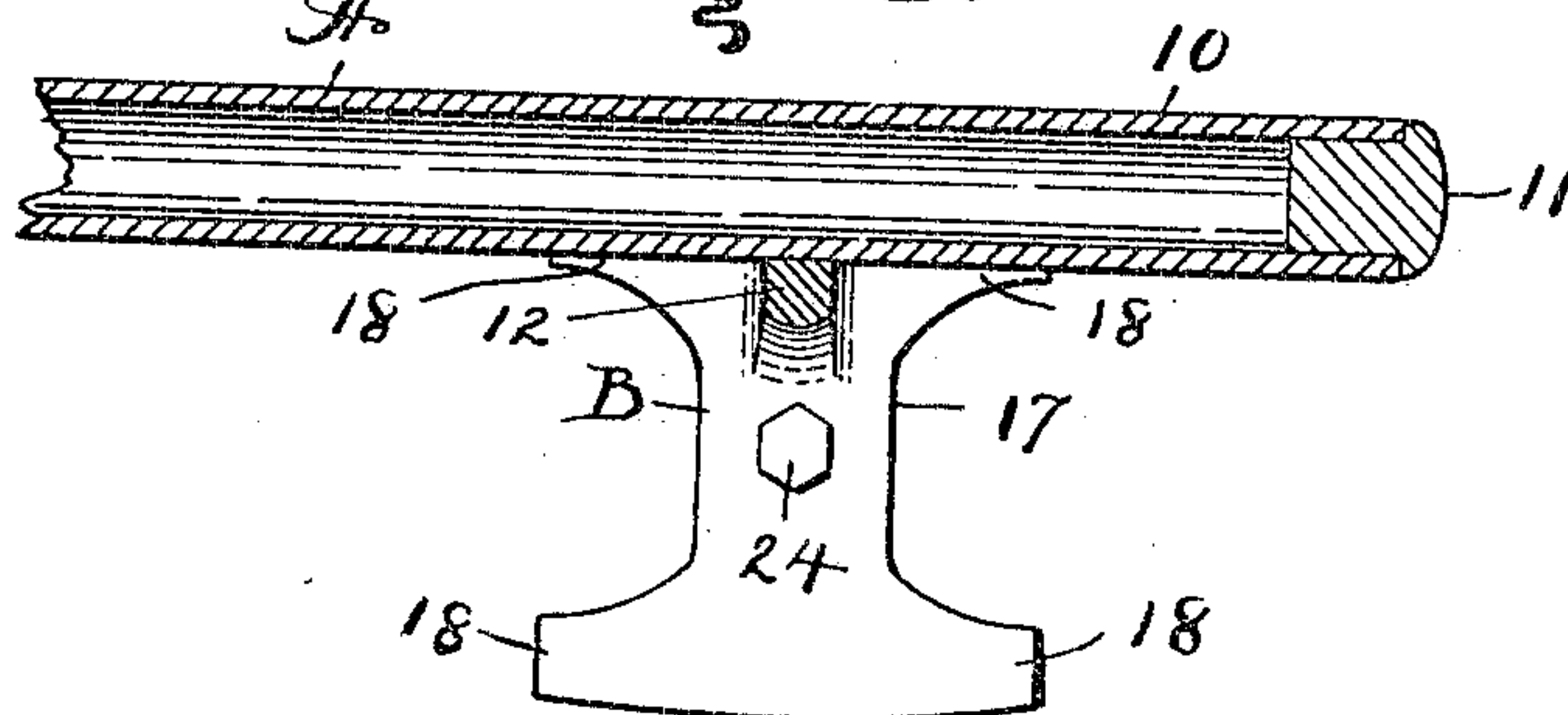


Fig. 4.



Witnesses:

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UNITED STATES PATENT OFFICE.

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RADIATOR FOOT-RAIL.

956,029.

Specification of Letters Patent.

Patented Apr. 26, 1910.

Application filed July 14, 1909. Serial No. 507,519.

To all whom it may concern:

Be it known that I, ALLAN J. BEATON, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Radiator Foot-Rails, of which the following is a specification.

My invention relates to improvements in radiator foot rails and the objects of my improvements are simplicity and economy in construction and comfort and convenience in use.

In the accompanying drawings:—Figure 1 is a perspective view of my radiator foot rail and a radiator. Fig. 2 is a plan of my radiator foot rail in part broken out, on an enlarged scale, with the outline of part of a radiator shown in broken lines. Fig. 3 is a side elevation of part of my foot rail. Fig. 4 is a front elevation of the same showing the rail in longitudinal section.

My radiator foot rail comprises a rail A supported on brackets B in a convenient position in front of a radiator C. As shown in the drawings, the same is particularly adapted to a radiator of the sectional type, although by a slight change in the brackets B the same may be readily adapted to other types of radiators.

The rail A may be of any ordinary kind, though I prefer to make the same of brass tubing 10, closing the ends of the same for a finish with special brass plugs 11. The brackets B comprise each a flat forwardly projecting web 12 provided at the front with a transverse receiving slot 13, inclosed between two upwardly extending arms respectively a front arm 14 and a back arm 15 provided with a set screw 16, the said slot a fit for and adapted to adjustably receive the said rail A which is locked in position by the said set screw 16. The said forwardly projecting web 12 extends forward from the upper central part of a radiator plate 17 comprising essentially a generally narrow vertically extending rectangular central plate having laterally extending bearing arms 18 on each side at the top and bottom; the said plate generally flat and at right angles to the said web 12, though actually having the back surface 21 rounded or forwardly inclined from the center toward the outer ends by an appreciable amount so as to provide a means of adjustment of the an-

gle and general relative alinement of the said transverse slot 13 with reference to the front face of the radiator C. The said bearing arms 18 are adapted to bear against the front edges 19 of the two adjacent radiator sections 20, which front edges are generally vertical and of V form as shown in the drawings, the two arms on one side bearing on one section and the two arms on the other side bearing on the other section, the back plate and arms bridging the space between the said two adjacent sections of the radiator so that by sliding the radiator plate 17 along longitudinally so as to change the bearing points of the rounded back surface 21 against the front edges 19, the angle of the projection of the said web 12 with reference to the face of the radiator C may be varied and thereby the said angular adjustment of the said transverse slot 13 with reference to the face of the radiator C may be effected. The said radiator plate 17 is provided with a hole 22 in the vertical central line just below the said web 12, and essentially in the center of the plate or a little below for receiving a clamping screw 23, which screw is passed through the said hole from the front backward, leaving the head 24 at the front and the screw thread 25 at the back, and the body 30 between the radiator sections, said screw thread adapted to receive a special clamping nut 26. The said nut 26 is essentially an elongated strip, drilled and tapped at the center to fit the screw thread 25, and of such length as to bridge the space between two adjacent sections of the radiator essentially as the plate 17 and arms 18 bridge the space in front. I prefer however to take advantage of any forward projecting formation at the back of the radiator sections, as for instance the forward inclination of the adjacent back sides 27 of the radiator sections 20 by providing a corresponding formation to the bearing surfaces 28 of the said special clamping nut 26 so that the body of the nut will project well forward into the space between the radiator sections and permit the use of a shorter clamping screw 23. The central screw threaded part of said nut 26 may be lengthened and reinforced at the back by a boss 29, so that a thread longer than standard may be provided in the said nut. By means of the said clamping screw 23 and nut 26 the bracket B may be clamped at es-

essentially any height and at any portion longitudinally along the front of the radiator C.

In use, a pair of brackets B are used to support a single rail A, and by the adjustment of the individual brackets described a considerable variation in the position of the rail A may be effected. I prefer however to so construct and adjust the parts that the rail may be of approximately the length of the radiator, and may be set up horizontally, at a height about a quarter the height of the radiator or a foot or so above the floor, and the ends of the rail A overhanging the brackets B by an appreciable fraction of the total length of the rail.

For artistic effect especial attention may be given to the design for the form of the bracket B and special attention given to the finish of the parts, especially the exposed parts.

In the description given my foot rail has been applied to a radiator of the multiple section type. By changes in the form of the back face of the bracket B and the location and arrangement of the clamping screw 23 my foot rail may be applied to other forms of radiators.

By the foot rail described in combination with a radiator, not only is a means of comfort and convenience provided, but also a guard that serves as a means of protection to the individual and to the outside of the radiator itself.

It is apparent that some changes from the specific construction herein disclosed may be made and therefore I do not wish to be understood as limiting myself to the precise form of construction shown and described, but desire the liberty to make such changes, in working my invention, as may fairly come within the spirit and scope of the same.

I claim as my invention:—

1. A support for a radiator foot rail comprising a bracket having rail supporting

means combined with means for clamping against the front edge of a pair of adjacent radiator sections, the said latter means comprising an essentially plate-like member such as to appear from the front like a flat plate and having a back clamping surface of shallow wedge shaped formation, the deviation of the said back clamping surface from a plane surface being slight, though appreciable, so as to permit of angular adjustment, the inclination of the same being such that under pressure the said surface will tend to prevent the spread of the said front edges of the radiator sections against which the same may be clamped.

2. A bracket for a radiator foot rail comprising a forwardly projecting web provided with rail receiving and holding means, and an integral support for said web comprising a generally rectangular back plate from the upper part of which the said web projects, having a hole for a clamping screw immediately below said web and generally in the middle of the plate, and at the four corners laterally extending clamping arms.

3. A bracket for a radiator foot rail comprising a forwardly projecting web provided with a rail receiving slot and rail holding means and an integral and essentially flat back plate having the said web attached to the upper central part, upper and lower laterally extending clamping arms, a back clamping surface comprising the back surface of said plate and arms, the said clamping surface generally slightly though appreciably rounded and a hole for clamping screw below said web and appreciably above the bottom edge of said plate.

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Witnesses:

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