No. 840,773. PATENTED JAN. 8, 1907.

R. KENT.

BRACKET.

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Fig. 2.

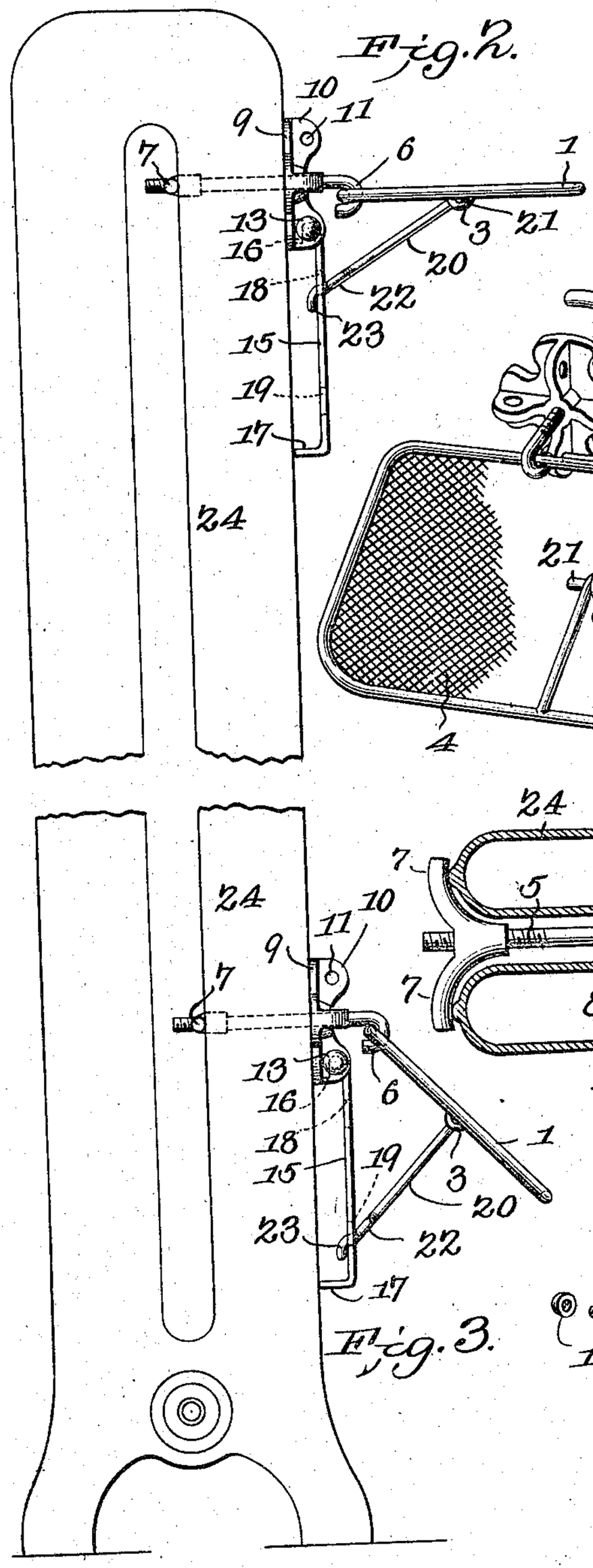

Fig. 1.

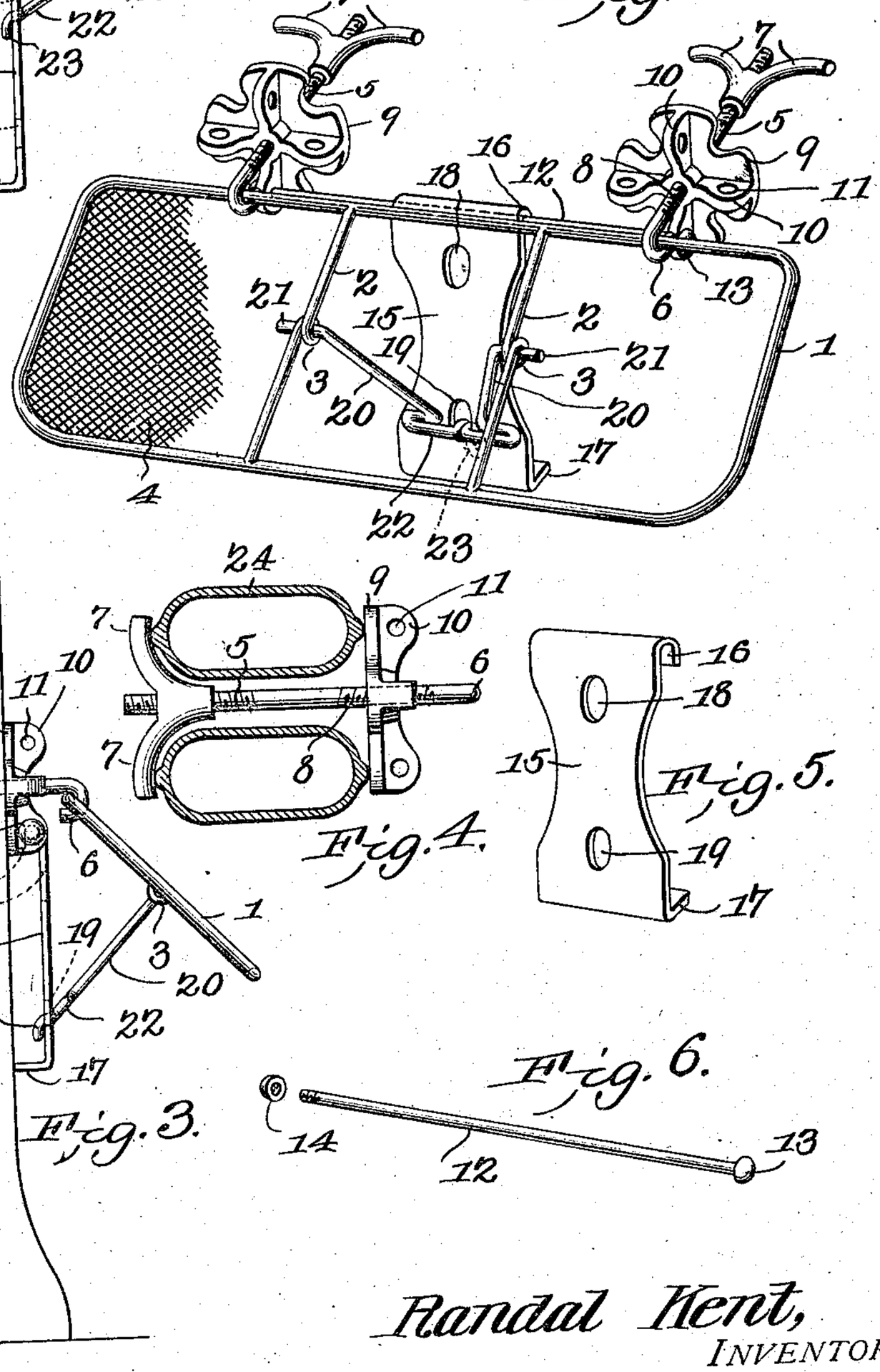

Fig. 3.

Fig. 4.

Fig. 5.

Fig. 6.

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BRACKET.

No. 840,773. Specification of Letters Patent. Patented Jan. 8, 1907.

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To all whom it may concern:

Be it known that I, RANDAL KENT, a citizen of the United States, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Bracket, of which the following is a specification.

This invention relates in general to brackets, and is primarily designed to provide such a device as may be conveniently applied to an ordinary steam or hot-water radiator in an elevated position for supporting a vessel or other article in position to be maintained in a heated condition by radiation from the radiator and also capable of being adjusted to a lowered position upon the radiator for use as a foot-rest.

A further object of the invention is to have the device complete in itself and capable of being applied to any ordinary radiator without making any changes or alterations in the latter whatsoever and without interfering with its usual functions.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of one of the brackets of the present invention. Fig. 2 is an end elevation of the top portion of a conventional form of radiator having a bracket of the present invention applied thereto and supported in a horizontal position. Fig. 3 is a similar view showing the bracket applied as a foot-rest. Fig. 4 is a fragmentary plan view illustrating the connection between the radiator coils or sections and one of the anchor elements of the bracket. Figs. 5 and 6 are detail perspective views of details of the bracket.

Similar numerals of reference designate corresponding parts in all of the figures of the drawings.

As best shown in Fig. 1 of the drawings, it will be seen that the present bracket includes a platform made up of a substantially rectangular open or skeleton frame 1, of wire or light metal rods, the longitudinal sides of the frame being connected by cross-bars 2; located at opposite sides of the transverse center of the frame. At the middle of each cross-bar 2 there is an eye 3, preferably formed by twisting or coiling the bar. Any appropriate covering may be applied to the frame—for instance, a strong wire fabric 4.

Between each cross-bar 2 and the adjacent end of the frame 1 there is a clamping device made up of an anchoring element having a straight shank 5, terminating at its forward end in a downturned hook 6 for detachable engagement with the rear side of the frame 1. The rear end of the shank is threaded and receives a head 7, which has its ends bent slightly, as shown, to form anchoring-hooks. The forward portion of the shank is threaded, as at 8, and upon this threaded portion is a nut 9, provided with a series of radial ribs or webs 10 upon its front face, each rib or web being provided with an opening 11. The threads on the front and rear ends of the shank 5 are reversely arranged—that is to say, they extend in opposite directions, so that by turning the shank in one direction the head 7 and the nut 9 will be moved simultaneously toward each other, and when said shank is rotated in the opposite direction the nut and head will be moved simultaneously in opposite directions upon the shank.

Between the two nuts 9 extends a connecting rod or bar 12, which is passed endwise through the openings of the depending ribs or webs of the two nuts, one end of the rod being provided with a fixed or integral head 13, while its other end has a removable head or nut 14 threaded thereon, so as to prevent endwise displacement of the rod when associated with the nuts. This rod limits rotation of the nuts and, in fact, forms a nut-lock.

Hung from the rod 12 as a support is an abutment 15, preferably of plate metal, with its upper end bent downwardly across its rear side to form a hook 16 to embrace the rod, the lower end of the abutment being bent back at substantially right angles thereto to form a shoulder or flange 17. Upper and lower openings 18 and 19 are formed in the abutment.

Extending between the abutment and the frame of the platform is a forked prop having its fork members 20 diverging across the platform and terminating in outwardly-directed studs or projections 21, received within the respective eyes 3. The inner ends of the fork members are connected by an integral

connecting member 22, from which extends rearwardly a hook 23, adapted to engage with the respective seats or openings 18 and 19. It will be apparent that by pressing together the upper ends of the diverging members 20 the studs or projections 21 can be readily disengaged from the eyes 3 to detach the prop from the shelf when shipping the same.

In practice the bracket is applied to a radiator, a conventional form of which has been indicated at 24 in Figs. 2 and 3 of the drawings, by having the shank 5 of each clamping device received between adjacent coils or sections of the radiator, as best shown in Fig. 4 of the drawings, said shank then being turned so as to engage the head 7 across the rear edges of the respective radiator-sections, after which the nut 9 is set up snugly against the front edges of said radiator-sections. After the two clamping devices have been attached to the radiator the rod 12 is assembled with the depending ribs or webs 10 of the nuts and the platform is engaged with the hooked terminals 6 of the shanks 5. The abutment 15 is then hooked upon the rod 12, and the prop 20 has its hook 23 engaged with one or the other of the seats or openings 18 and 19, whereby the platform will be supported in one or the other of the positions shown in Figs. 2 and 3 of the drawings. The function of the element 15 is to form an abutment or supporting element for the foot of the member 20, and it is proposed to maintain the abutment in a vertical position by means of the flange 17, which engages across the front edges of adjacent radiator-sections.

When the bracket is supported as in Fig. 2, with the platform in a substantially horizontal position, it affords a support for a water vessel or any other article which it is desired to maintain in a heated condition, while in the position shown in Fig. 3 it is designed for use as a foot-rest for convenience in warming the feet or drying the shoes without subjecting the shoes to direct contact with the radiator.

From the foregoing description it will be understood that the bracket of the present invention is entirely complete in itself and capable of being fitted to any conventional form of radiator without making any change or alteration and without interfering with its functions. Moreover, the bracket may be supported at any elevation upon the radiator and may be shifted and removed in a very convenient manner without requiring any particular degree of skill or experience.

Having thus described the invention, what is claimed is—

1. The combination with a support, of a bracket including a pair of clamps engaged with said support, an abutment pivotally connected at its upper end with said clamps and bearing loosely at its lower end against said support, a shelf swung upon the clamps approximately on a level with the upper end of said abutment, and a prop extending downward from the shelf to the abutment so as to sustain the shelf and press the lower end of the abutment against the support.

2. The combination with a support, of a pair of clamps connected with said support, an abutment having its upper end bent rearwardly to form a hook which is detachably secured to said clamps, the lower end of said abutment resting loosely against said support, a shelf connected with said clamps adjacent the upper end of said abutment, and a prop loosely connected with said shelf and abutment for holding the shelf in elevated position.

3. A bracket including a pair of clamps for engagement with a support, an abutment hung from said clamps, a shelf detachably connected with said clamps, and a prop connected with said shelf and comprising a pair of diverging arms adapted to be disengaged from said shelf by being forced together, said prop being detachably engaged at its lower end with said abutment.

4. A bracket including a pair of clamps for engagement with a support, an abutment pivotally connected with the clamps at its upper end and having a plurality of perforations forming seats, a shelf connected with the clamps, and a prop comprising a pair of diverging arms detachably connected with said shelf, said prop having at its lower end an integral connecting member provided with a hook to engage one of the perforations in said abutment.

5. A bracket including a pair of clamps for engagement with a support, an abutment hung therefrom and provided with a seat, a shelf swung upon the clamps and provided with a pair of eyes upon its under side, and a forked prop having its fork-terminals pivotally engaged with the respective eyes and its opposite end formed for detachable engagement with the seat of the abutment.

6. A bracket comprising a pair of spaced clamps for engagement with a support, said clamps including nuts, a cross-bar connecting the nuts, an abutment hung from the cross-bar, a shelf hung upon the clamps, and a prop between the abutment and the shelf.

7. A bracket comprising a pair of spaced clamps for engagement with a support, each clamp having a nut provided with a plurality of seats, a cross-bar for detachable engagement with the individual seats of the nuts, an abutment hung from the cross-bar, a shelf swung upon the clamps, and a prop between the abutment and the shelf.

8. A bracket comprising a pair of spaced clamps for engagement with a support, each clamp having a nut provided with a series of radial ribs having openings, a cross-bar for engagement with the openings of the indi-

vidual ribs to connect and lock the nuts, an abutment hung upon the cross-bar, a shelf swung upon the clamps, and a prop between the abutment and the shelf.

9. A bracket including a pair of spaced clamps for engagement with a support, each clamp including a threaded shank and a head having members bent to form hooks, a nut upon the threaded portion of the shank to clamp a support between the head and the nut, a shelf swung upon the shanks of the clamps, a removable cross-bar connecting the nuts, an abutment hung upon the cross-bar, and a prop between the abutment and the shelf.

10. A bracket including a pair of spaced clamp members for engagement with a support, a cross-bar extending between the clamp members and secured thereto, an abutment having a hook to detachably engage the cross-bar, a shelf swung upon the clamp members, and a prop between the abutment and the shelf, said prop having a pair of diverging arms detachably connected with said shelf.

11. A bracket including a pair of spaced clamps for engagement with a support, each clamp including a clamping-nut, a detachable cross-bar extending between the nuts to lock the same and secured thereto, a shelf swung upon the clamps, an abutment having an upper terminal hook for engagement with the cross-bar and a lower terminal transverse shoulder upon the back thereof, and a prop between the abutment and the shelf.

12. A bracket including a pair of spaced clamps for engagement with a support, each clamp including a threaded shank provided at one end with a transversely-disposed support-engaging element and at its other end with a hook, a nut upon the threaded portion of the shank to clamp a support between the support-engaging element and the nut, a shelf swung upon and detachably engaged with the hooks of the shank, and a prop for the shelf.

13. A bracket including a pair of shanks having their ends reversely threaded, a head engaging the threaded rear end of each shank, a nut engaging the forward threaded end of each shank, a shelf carried by the front ends of the shanks, an abutment hung from the shanks, and a prop between the abutment and the shelf.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

RANDAL KENT.

Witnesses:
J. M. TOBIAS,
M. G. MCLAREN.