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J. M. SIMS

RADIATOR AND BATHTUB SLING

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2 Sheets-Sheet 2

Fig. 4.

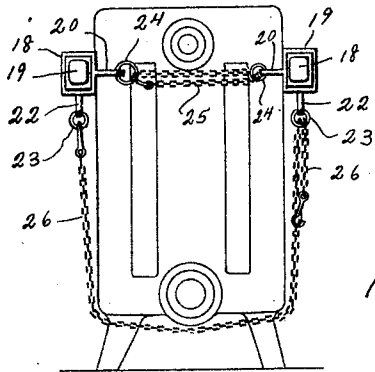


Fig. 5.

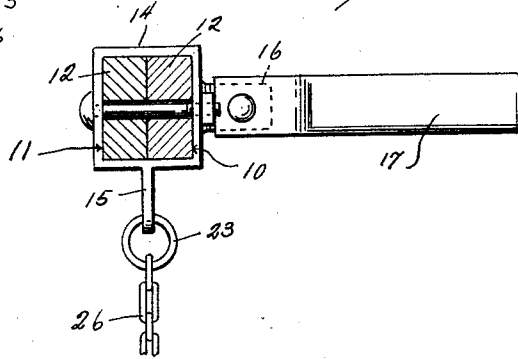
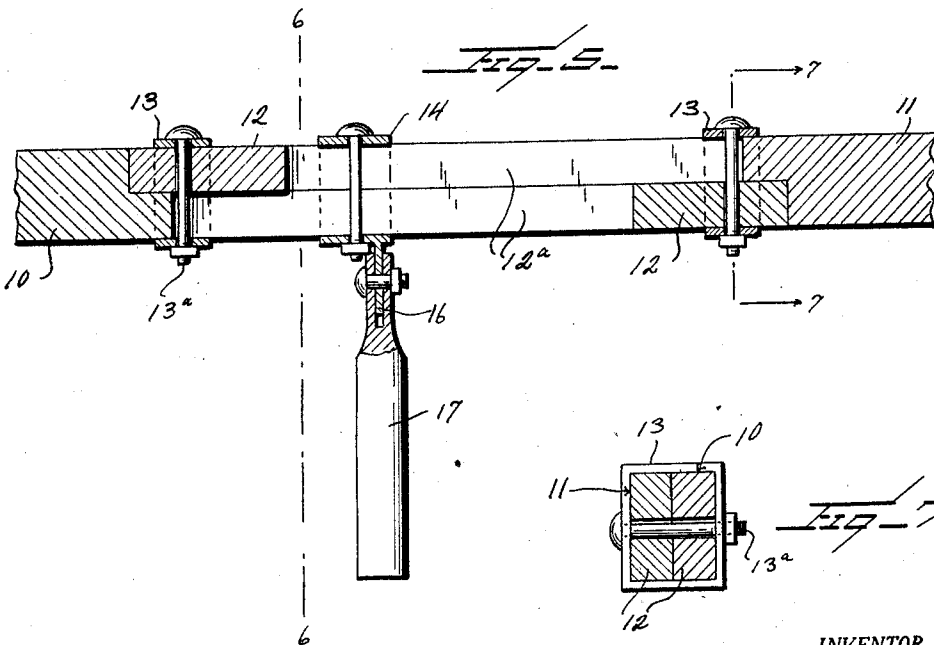


Fig. 5.



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# UNITED STATES PATENT OFFICE.

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## RADIATOR AND BATHTUB SLING.

Application filed February 26, 1924. Serial No. 695,344.

*To all whom it may concern:*

Be it known that I, JOHN MILTON SIMS, a citizen of the United States, residing at Houston, in the county of Harris and State of Texas, have invented certain new and useful Improvements in Radiator and Bath-tub Slings, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to devices for carrying radiators, bath tubs, and other heavy articles of like character such as used in steam fitting and in plumbing.

Bath tubs, radiators, tanks, water closets, basins and other fittings used by plumbers and steam fitters are very heavy and hard to handle, particularly where they have to be taken to upper stories of a house, and very often fingers are broken and smashed and backs wrenched by attempting to carry bath tubs and radiators.

The general object of the present invention is to provide a stretcher-like sling so constructed that the bath tub, radiator or like article can be suspended between two longitudinal supporting bars and carried to any desired location with a minimum of trouble.

A further object is to provide a device of this character which is so constructed that it may be expanded or contracted to a certain degree to accommodate it to longer or shorter bath tubs or longer or shorter radiators.

A still further object is to provide a carrier of this character in which the transverse supporting bars are connected by chains, these chains being so connected to the supporting bars and to each other that they may be readily shifted into different supporting positions for carrying different articles and adjusted to wider or narrower articles.

Another object is to provide a carrier or sling of the character stated with means whereby handles may be applied to the supporting bars midway between the ends or extremities of the supporting bars.

Other objects will appear in the course of the following description.

My invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a side elevation of a tub with my carrier applied thereto;

Figure 2 is a top plan view of the carrier

with the parts arranged as in Figure 1 but without the tub being shown;

Figure 3 is a top plan view of the carrier but with a different arrangement of chains;

Figure 4 is an end view of the carrier showing the chains arranged for carrying a radiator;

Figure 5 is an enlarged fragmentary horizontal section taken through the middle of one of the carrier bars;

Figure 6 is a section on the line 6—6 of Figure 5;

Figure 7 is a section on the line 7—7 of Figure 5.

Referring to these drawings, it will be seen that my improved sling includes two longitudinally extending carrier or supporting bars A and B, these bars being substantially alike and being formed with handles at their ends. Each bar is formed of two sections 10 and 11. The bars may be made of wood, metal or any other suitable material and at their meeting ends each section is reduced in thickness, as at 12, so as to lie flat against each other. In the embodiment of my invention shown, the total length of a bar when the two sections are collapsed upon each other is five feet, and when the sections are pulled out from each other each bar is five feet six inches long.

Each of the flattened extremities 12 of each section of each bar is provided with a collar or sleeve 13, this sleeve being applied at the extremity of the section and embracing the reduced extremity of the other section. Each reduced extremity is longitudinally slotted, as at 12<sup>a</sup>, and each sleeve 13 is provided with a bolt 13<sup>a</sup> directed through the slots of both reduced extremities. Thus it will be obvious that the sections may be pulled out with relation to each other or contracted.

Disposed intermediate the collars 13 is a collar 14 on each bar which embraces the two reduced sections and which is provided with a lug 15 to which a chain may be attached, as will be later stated. The outer face of this collar is provided with an outstanding lug 16 with which a detachable handle 17 may be engaged in the manner shown in Figure 5. This handle may be applied to the lug whereby the carrier or sling may be lifted at the middle or the handles may be removed, depending upon circumstances.

The extremities of the bars, as before stated, are reduced to form handles 18, and disposed inward of these handles are collars 19 which embrace the ends of the bars and are securely fastened thereto. These collars are formed with inwardly projecting lugs 20 having eyes with which chains are engaged. Between the collars 19 and the adjacent collars 13 each bar is provided with a collar 21 likewise having downwardly projecting lugs 22 formed with eyes for engagement by chains. These collars 21 are secured to the bars between the collars 19 and the adjacent collars 13.

To the intermediate collars 14 and collars 21 there are applied rings 23 and to the collars 19 at both ends of each bar there is applied a ring 24. A chain 25 is attached to one of the rings 24, the other end of the chain having a snap hook. This chain may be passed through the opposite ring of the opposite bar and then the snap hook engaged with the first named ring or with any of the links of the chain to thereby lengthen or shorten the chain. These chains at the ends of the bars are called binding chains and act to bind the rails or bars of the carrier under the rim of a bath tub to prevent separation of the bars. Chains 26 are connected to the collars 14 and 21, each of these chains being provided with a snap hook at both ends of the chain. Thus it will be seen that the chains may be arranged as shown in Figure 2, where the chains 26 extend directly across from bar to bar or arranged as in Figure 3 where the bars are placed nearer together and the chains run through the rings attached to the several collars and the chain connected to each other or interlinked with each other through the medium of the snap hooks so as to provide what may be termed a more closely woven or connected linkage for supporting smaller articles than could be supported with the chains as illustrated in Figure 1. It will be noticed, of course, that the opposite ends of this carrier or sling are both provided with short chains to bind the feet and head of the carrier to the rim of a bath tub. The tubs that have rims can be carried by removing the three little chains entirely, allowing the tub to be carried on the longitudinal supporting bars, the tub being bound by the relatively short end chains.

Tubs approximately square in cross section can be carried on the sling or carrier by means of the chains, and inasmuch as these tubs weigh from 250 to 300 pounds each, it will be obvious that great difficulty would be experienced in handling the tubs were it not for the use of the carrier. The chains may be also engaged with each other, as shown in Figure 4, and in this adjustment the carrier is particularly adapted for supporting radiators. The carrier when closed

with the three chains attached and the binding chains drawn binds the carrier rails or bars to the radiator and by placing the handles 17 in engagement with the lug 16, the device is very readily balanced. With the carrier closed and the chains attached, two men can carry from fifteen to twenty feet of four-inch soil pipe with ease. For fine tubs the chains can be replaced with straps or with chains covered with rubber tubing.

I do not wish to be limited to the particular manner of connecting the chains or the particular arrangement of the chains, as it is obvious that these may be varied in many ways without departing from the spirit of the invention.

I claim:—

1. A sling or carrier for radiators or bath tubs comprising two longitudinally extending bars having handles at the ends thereof, each bar being formed of two sections longitudinally adjustable upon each other and having overlapping engagement at the adjacent ends of the sections, and a collar loosely surrounding the overlapping ends of the sections on each bar and having a laterally projecting handle, and chains detachably and adjustably connected to said bars.
2. A sling or carrier for radiators or bath tubs comprising two longitudinally extending bars having handles at the ends thereof, each bar being formed of two sections longitudinally adjustable upon each other, a collar loosely surrounding the two sections and having outwardly projecting lugs, laterally projecting handles detachably mounted upon said lugs, and chains detachably and adjustably connected to said bars.
3. A sling or carrier for radiators or bath tubs comprising two longitudinally extending bars having handles at the ends thereof, each handle being formed of two sections longitudinally adjustable upon each other and having overlapping engagement at the adjacent ends of the sections, the overlapping portions of the sections having longitudinal registering slots, a collar loosely surrounding the overlapping ends of the sections of each bar, a bolt passing through the collar and through the registering slots of the two sections, a handle detachably mounted upon each collar and projecting laterally therefrom, and flexible members detachably and adjustably connected to said bars.
4. A carrier for bath tubs or radiators comprising two longitudinally extending bars, each of said bars being formed in two sections, the sections of each bar having overlapping engagement with each other, the adjacent ends of each section each having a collar slidably embracing the other section, an intermediate collar placed between the adjacent collars on each bar and having outwardly projecting handles, and a plurality of collars disposed along the bars,

and chains extending between the bars and detachably and adjustably connecting the several collars.

5 A carrier or sling of the character described comprising two longitudinally extending bars having handles at their extremities, each bar being formed in two sections having overlapping sliding engagement at their adjacent ends, collars mounted on the overlapping extremity of each section in sliding engagement with the other section, each collar being provided with ears, an intermediate collar on each bar loosely embracing the overlapping portions of the two sections and having inwardly projecting

ears and laterally projecting handles, collars attached to the ends of the bars adjacent the handles thereof, intermediate collars slidably mounted upon the bars, relatively short chains connecting the collars on the ends of the bars, said chains being adjustable as to length, and intermediate chains adapted to have operative connection between the intermediate collars, each of said chains being adjustable as to length and having snap hooks at one extremity whereby the chains may be detachably engaged with each other.

In testimony whereof I hereunto affix my signature.

JOHN MILTON SIMS.