J. A. BRODIN.

RADIATOR COVER.

APPLICATION FILED FEB. 6, 1919.

1,344,376.

Patented June 22, 1920.

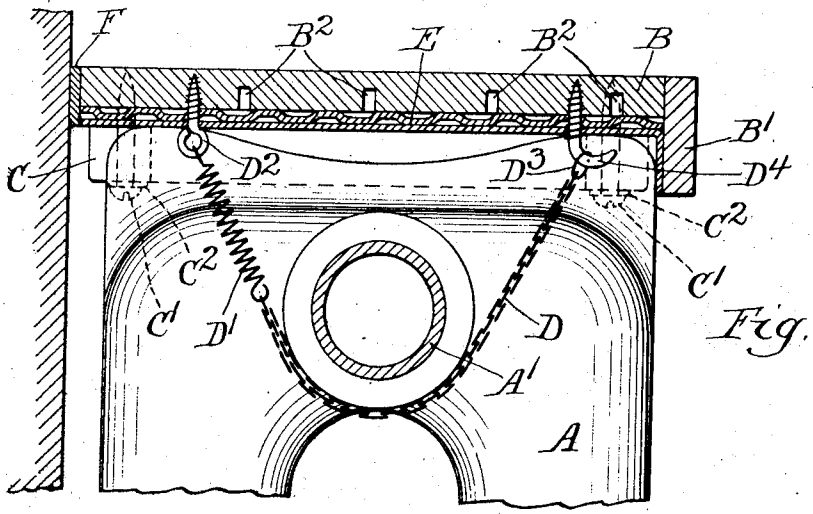
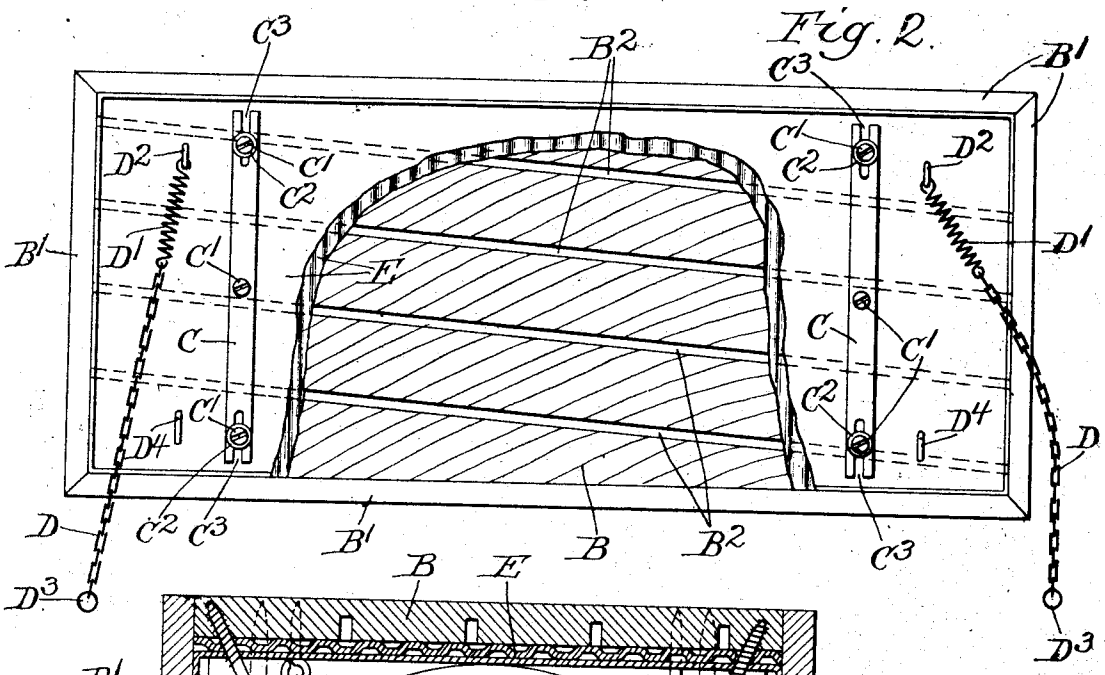


Fig. 1.

Fig. 2.



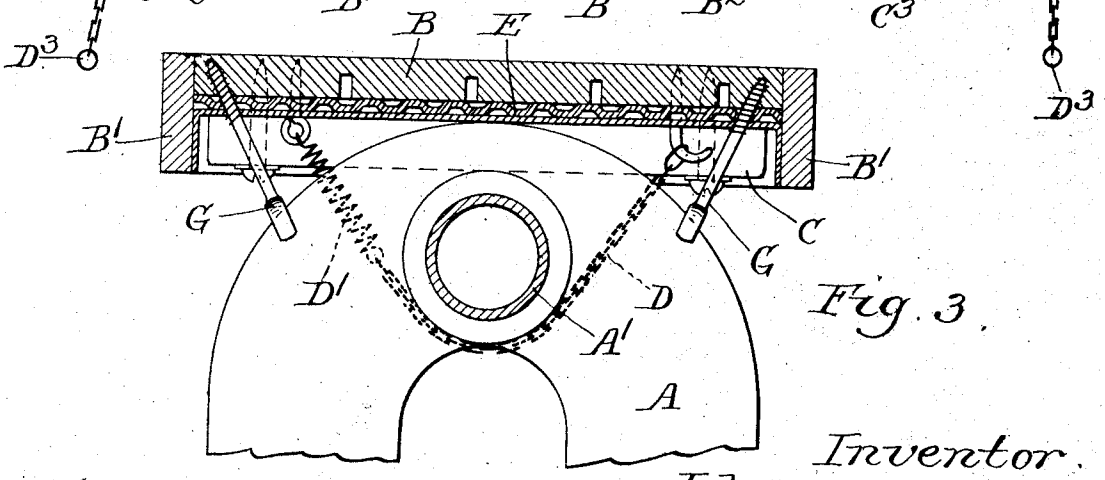


Fig. 3.

Witness.
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UNITED STATES PATENT OFFICE.

JOHN A. BRODIN, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-THIRD TO EVALD E. BRODIN AND ONE-THIRD TO NORMAN V. CHRISTENSEN, BOTH OF CHICAGO, ILLINOIS.

RADIATOR-COVER.

1,344,376. Specification of Letters Patent. Patented June 22, 1920.

Application filed February 6, 1919. Serial No. 275,305.

To all whom it may concern:

Be it known that I, JOHN A. BRODIN, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Radiator-Covers, of which the following is a specification.

My invention relates to means for preventing wood from warping and applies particularly where such wood is used for covers for radiators and the like or where it is so that the heat on one side is substantially greater than that upon the other and has for one object to provide a durable cover for a radiator of such character that it will not be split or warped by the heat of the radiator, and has for another object to provide a cover for radiators to divert the rising air currents from them, so as to prevent dust from being carried up along the wall in rear of the radiator.

My invention is illustrated more or less diagrammatically in the accompanying drawings, wherein,

Figure 1 is a vertical section of my radiator cover applied to a radiator against a wall.

Fig. 2 is an elevation showing the under side of the radiator cover with the asbestos sheeting partly broken away so as to show the board itself.

Fig. 3 is a vertical section of a type of my cover adapted for use with a round topped radiator which is not immediately adjacent to any wall.

Like parts are indicated by like characters in all figures.

A is a radiator having the central coil connecting pipe A′.

B is my top having the downwardly depending lips B′ and slotted as at B^2.

C are cleats secured to the under side of the cover B by the screws C′ and the washers C^2 and slotted at their ends as at C^3.

D is a chain adapted to secure the cover upon the top of a radiator, connected to the spring D′ which is secured to the screw-eye D^2, and carrying the ring D^3 adapted to engage the hook D^4.

E is a composite fire-proof heat insulating sheathing of asbestos or the like, secured to the under side of the cover and between it and the cleats C.

F is a strip of felt or similar material along the side of the cover which rests against the wall and is adapted to prevent the passage of air up along the wall at that point.

G are supports in the form of forked projections or screws adapted to be applied to my radiator cover when it is in use upon a round topped radiator, which serve to steady or balance it.

The use and operation of my invention are as follows:—

It has long been the desire of architects and builders to cover the tops of radiators so as to conceal them or make use of the space occupied by the radiator by adapting the radiator cover for use as a shelf or bench. For this purpose, it has been customary to build over the radiator or build upon it some form of wooden shelf. This has invariably proved unsatisfactory because the shelf has been warped out of shape or split by the effect of the heat under it. It is to provide a cover which will not be warped that I have invented this device. My process is to build a cover of wood which I lay upon the top of the radiator. This cover has slots cut in it lengthwise, diagonal to the grain of the wood and downwardly depending lips about the edge of the cover, I have applied to the under side of the cover, insulating sheathing and have strengthened it by securing to it below this sheathing, cleats which add to the stiffness of the cover. The whole is secured to the top of the radiator by means of a chain and spring or other suitable device. That edge of the cover which touches the wall, in cases where this cover is applied to radiators against walls, has along it felt or other similar material to prevent the passage of air up along the back of the radiator.

This is to provide a top which will cover the radiator and will rest against the wall in rear of the radiator with a substantially air tight joint so as to prevent air currents from rising up along the wall in rear of the radiator, carrying with them dust and dirt which so commonly serve to disfigure and soil walls in the neighborhood of the radiator. This cover will divert the air currents so that they do not pass up along the wall.

Although I have shown an operative device, it is obvious that many changes may be made both as to form and arrangement

without materially departing from the spirit of my invention.

I claim:

1. In a protector for heated areas, a grained fibrous strip provided with longitudinal slots diagonal to the grain, and downwardly depending sides surrounding it.

2. In a protector for heated areas, a wooden strip provided with longitudinal slots diagonal to the grain of the wood and an insulating covering for the slots and downwardly depending sides surrounding it.

3. In a protector for heated areas, a wooden strip provided with longitudinal slots diagonal to the grain of the wood, an insulated covering for said slots, reinforcing members extending across said slots and downwardly depending sides surrounding the strip.

4. A wooden strip provided with longitudinal slots diagonal to the grain of the wood, an insulating cover for said slots, reinforcing members extending across said slots outside of the sheathing, comprising cleats in part slidably attached to said strip.

5. A wooden strip provided with longitudinal slots diagonal to the grain of the wood, insulating sheathing covering said slots, cleats secured to the strip outside of the sheathing, three downwardly depending sides about said strip, a strip of felt or similar material about the fourth side and means for securing the wooden strip to the top of the radiator.

6. A wooden strip provided with longitudinal slots diagonal to the grain of the wood, insulating sheathing covering said slots, cleats secured to the strip outside of the sheathing, three downwardly depending sides about said strip, a strip of felt or similar material about the fourth side and means for securing the wooden strip to the top of the radiator, comprising one or more adjustable spring chains and suitable fastening means therefor.

7. In a non-warping protector for heated areas, a wooden strip provided with longitudinal slots diagonal to the grain of the wood, a heat insulating strip adapted to be interposed between the wooden strip and the heated area, reinforcing members for the wooden strip, comprising cleats in part slidably attached to said strip.

8. A wooden strip provided with longitudinal slots diagonal to the grain of the wood, insulating sheathing covering said slots, cleats secured to the strip outside of the sheathing, three downwardly depending sides about said strip, a strip of felt or similar material about the fourth side and means for securing the wooden strip to the top of the radiator, comprising one or more adjustable spring chains and suitable fastening means therefor, and balancing means comprising forked projections extending from said strip and adapted to engage the edge of one of the coils of said radiator.

In testimony whereof I affix my signature in the presence of two witnesses this 4th day of February, 1919.

JOHN A. BRODIN.

Witnesses:

MINNIE M. LINDENAU,

MILDRED H. MACKE.