H. S. ASH AND A. J. BRIDGES.

HEAT CONDUCTOR.

APPLICATION FILED MAR. 4, 1920.

1,363,383. **Patented Dec. 28, 1920.**

Fig. 1.

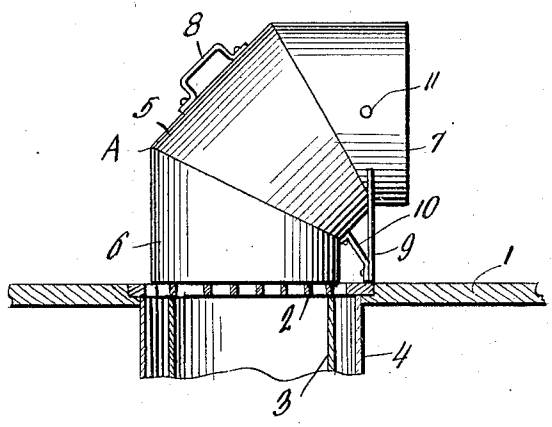


Fig. 2.

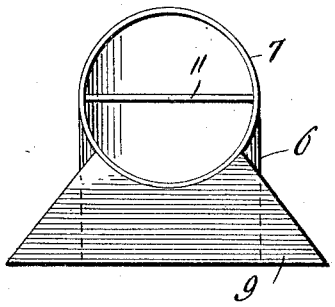
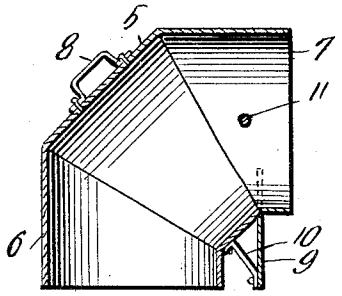


Fig. 3.



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HEAT-CONDUCTOR.

1,363,383. Specification of Letters Patent. Patented Dec. 28, 1920.

Application filed March 4, 1920. Serial No. 363,232.

To all whom it may concern:

Be it known that we, HIRAM S. ASH and ALONZO J. BRIDGES, citizens of the United States, residing at Bedford, in the county of Taylor and State of Iowa, have invented certain new and useful Improvements in Heat-Conductors, of which the following is a specification.

Our invention relates to new and useful improvements in a heat conductor and more particularly to a portable device adapted to be used in connection with what are known as pipeless furnaces.

The principal object of the invention is the provision of a heat conductor which is portable and which may be readily applied in position or removed as desired.

Another object of the invention is the provision of a heat conductor which may be turned so as to direct the heat in any desired direction.

A further object of the invention consists in providing the conductor with a foot-rest so that one may warm his feet.

Still another object resides in the provision of a shield adapted to be connected to the conductor for preventing cold air from reaching the feet of a person who is warming his feet.

With these and other objects in view our invention consists in the novel details of construction and arrangement of parts which will be more clearly understood from the following specification and drawings in which:—

Figure 1 is a side elevation of our conductor applied over the outlet register.

Fig. 2 is a front elevation, and

Fig. 3 is a longitudinal vertical section through the conductor.

As stated in the objects of our invention our conductor is adapted to be used with what is known as a pipeless furnace. In this type of furnace there is a heat outlet at the top, said outlet leading to a register adapted to be placed in the floor of the house. In this type of furnace an air jacket is also provided around the furnace and outlet so that the cold air, adjacent the floor of the room, will pass through the register and be heated.

In the drawing the numeral 1 indicates the floor of a room having the register or perforated plate 2 set therein. This register or perforated plate 2 is of such size as to fit over the top of the heat outlet of the furnace as well as the air jacket. The numeral 3 represents the heat outlet pipe and 4 represents the air jacket spaced from the pipe 3. The parts so far as described are of usual construction and form no part of our present invention. Our heat conductor is indicated generally at "A" and consists of a central section 5 cut in the manner as shown and provided with the sections 6 and 7 extending at right angles to one another. A handle 8 is secured to the section 5 whereby the conductor may be carried from place to place. When in use the section 6 is adapted to rest upon the register, over the heat outlet openings, and the section 7 will be directed toward that portion of the room that it is desired to heat. As shown the section 6 does not extend over the openings leading to the space formed between the pipe 3 and air jacket 4. Cold air may pass down through the air space to the furnace to be heated to again pass upwardly.

A plate 9 is secured to the section 5 by means of the brace bar 10 and the upper edge of this plate 9 is cut away to fit around the underside of section 7 as more particularly illustrated in Figs. 1 and 2 of the drawings. The lower edge of the plate 9 is adapted to extend flush with the lower end of the section 6 so that it will rest upon the register or plate 2 as shown. This plate 9 acts as a guard to prevent the cold air from passing under the section 7 of the conductor.

A transversely extending rod 11 is secured in the section 7 of the conductor and is adapted to be used as a foot rest to warm the feet.

From the above detailed description it is thought that the construction and manner of using our heat conductor will be clearly understood. As stated we provide a heat conductor which is adapted to be placed over any register for directing the heat in any direction. At the same time the device is portable so that it may be carried from place to place. The heat conductor may be set so as to direct the heat toward the door of any room which it is desired to heat or to any part of the room in which the register is situated in order to heat that part quicker. The plate 9 acts as a cold air shield or guard for preventing the cold air from reaching a person who is warming his feet in the heat conductor. The feet may rest upon the transverse rod 11 within the end of the conductor. At the same time the plate 9 acts

as a brace to prevent the conductor from falling over, particularly, when being used to warm the feet.

The foregoing description and the accompanying drawing have reference to what might be considered the approved or preferred, form of our invention. We desire it to be understood that we may make such changes in construction, combination and arrangement of parts, material, dimensions, etc., as may prove expedient and fall within the scope of the appended claims.

Having fully described our invention what we claim as new and desire to secure for Letters Patent is:—

1. A heat conductor comprising an inlet pipe, an outlet pipe secured at an angle to the inlet pipe, and a plate secured under the outlet pipe, the lower end of said plate extending flush with the lower end of the inlet pipe.

2. A portable heat conductor comprising an inlet pipe, an outlet pipe secured at an angle to the inlet pipe, a plate secured under the outlet pipe, the lower end of said plate extending flush with the lower end of the inlet pipe, and a handle secured intermediate the ends of the inlet pipe and the outlet pipe.

3. A heat conductor comprising an inlet pipe, an outlet pipe secured at an angle to the inlet pipe, and a rod secured in and extending transversely of the outlet pipe.

4. A heat conductor comprising an inlet pipe, an outlet pipe secured at an angle to the inlet pipe, a rod secured in and extending transversely of the outlet pipe, and a plate secured under the outlet pipe, the lower end of said plate extending flush with the lower end of the inlet pipe.

In testimony whereof we affix our signatures in presence of two witnesses.

HIRAM S. ASH.
ALONZO J. BRIDGES.

Witnesses:
K. E. Stephens,
Elmer T. Brice.