

No. 641,693.

Patented Jan. 23, 1900.

P. HACK.

HEATING DEVICE FOR SLEIGHS, &c.

(Application filed Oct. 13, 1898.)

(No Model.)

Fig. 1.

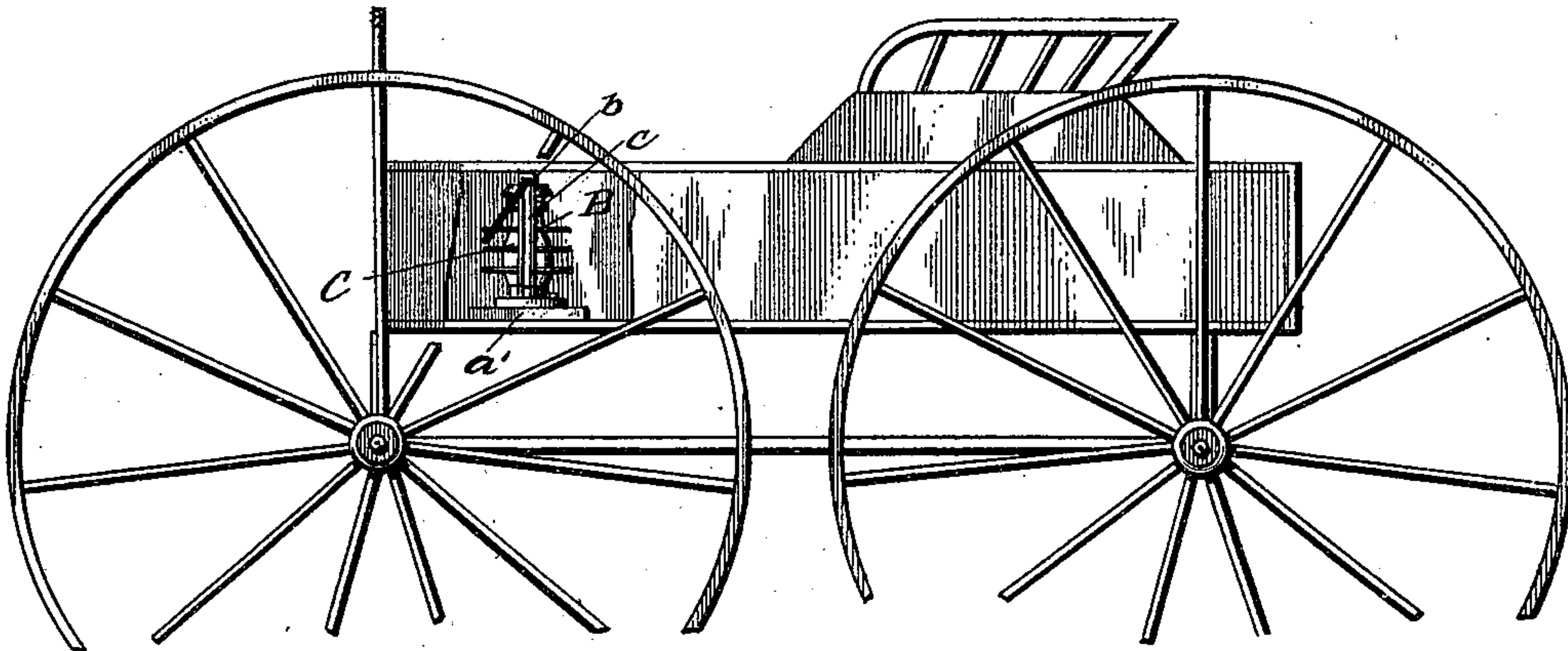


Fig. 3.

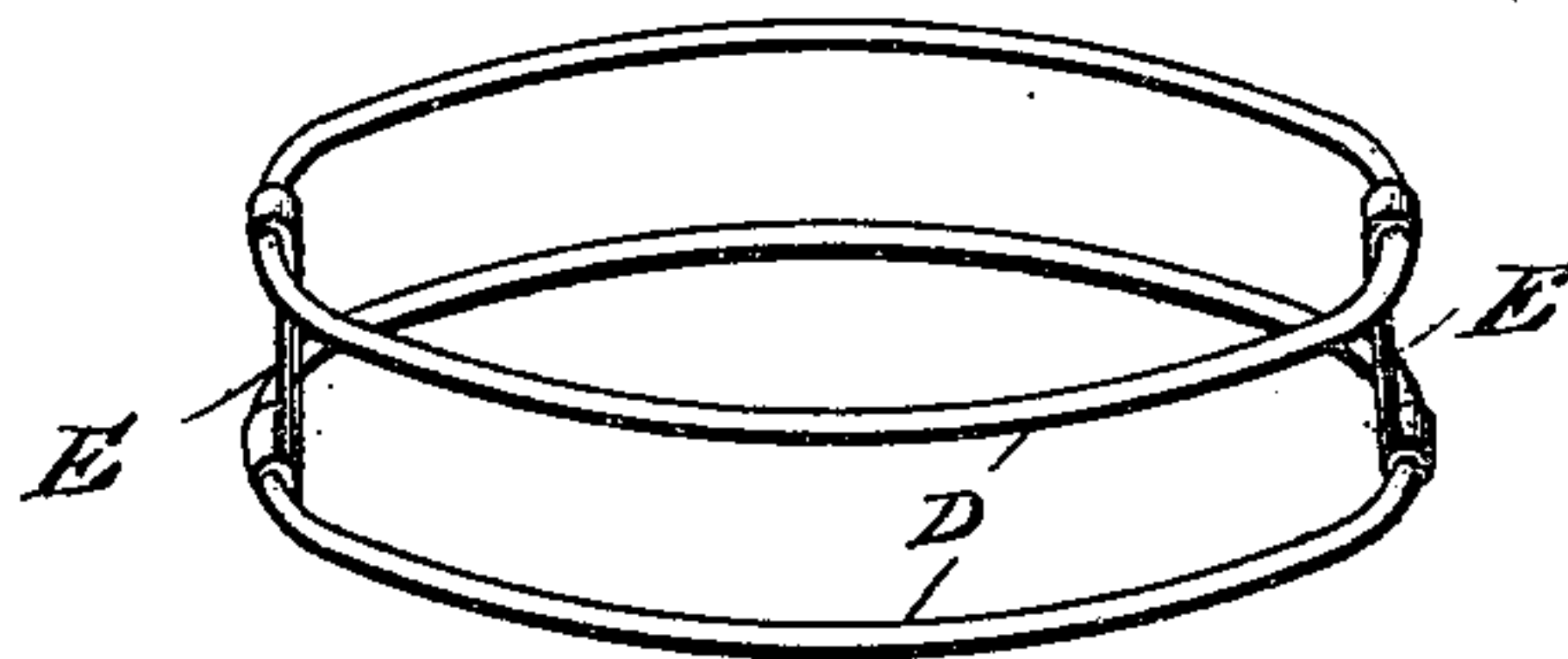
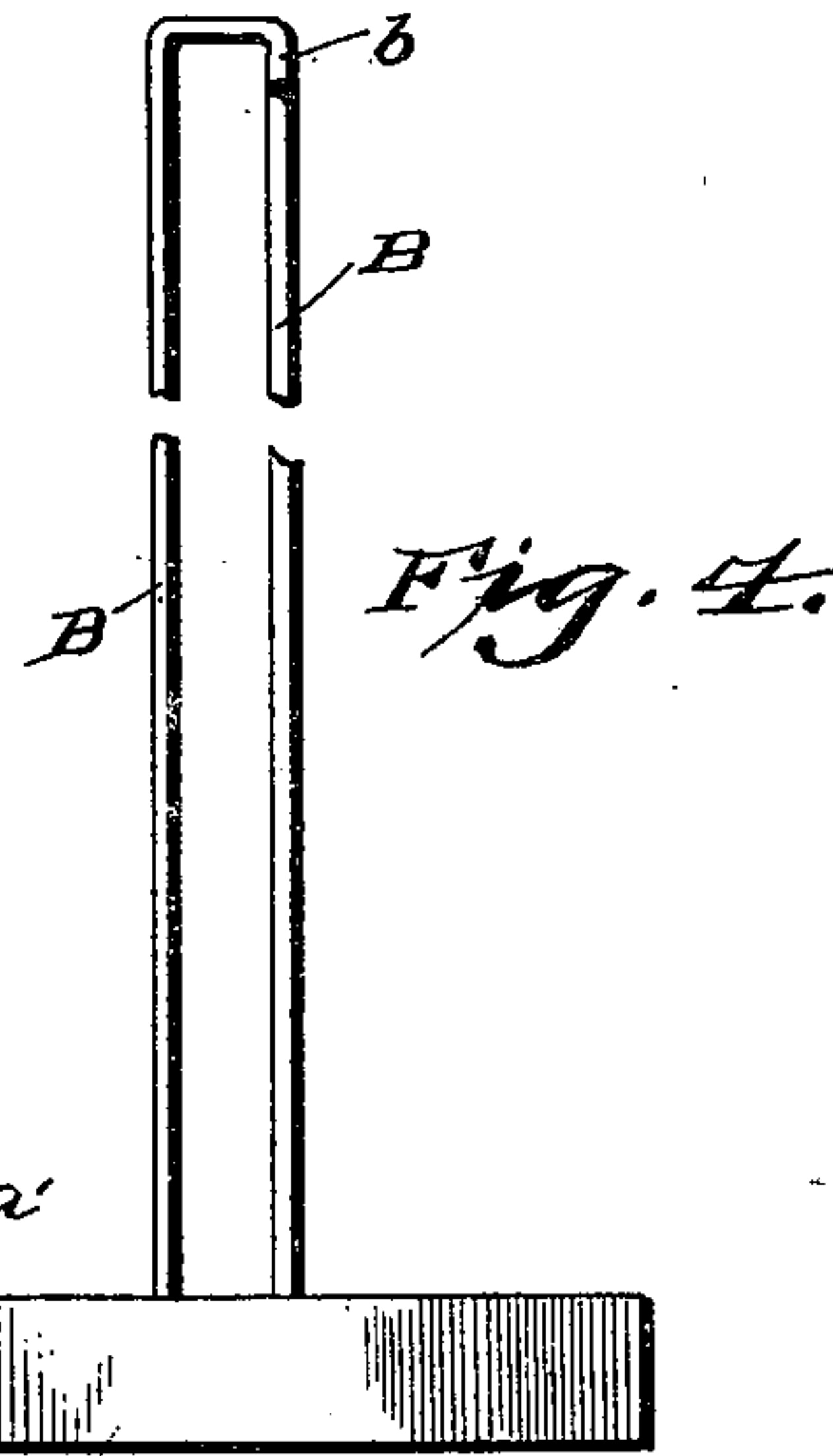
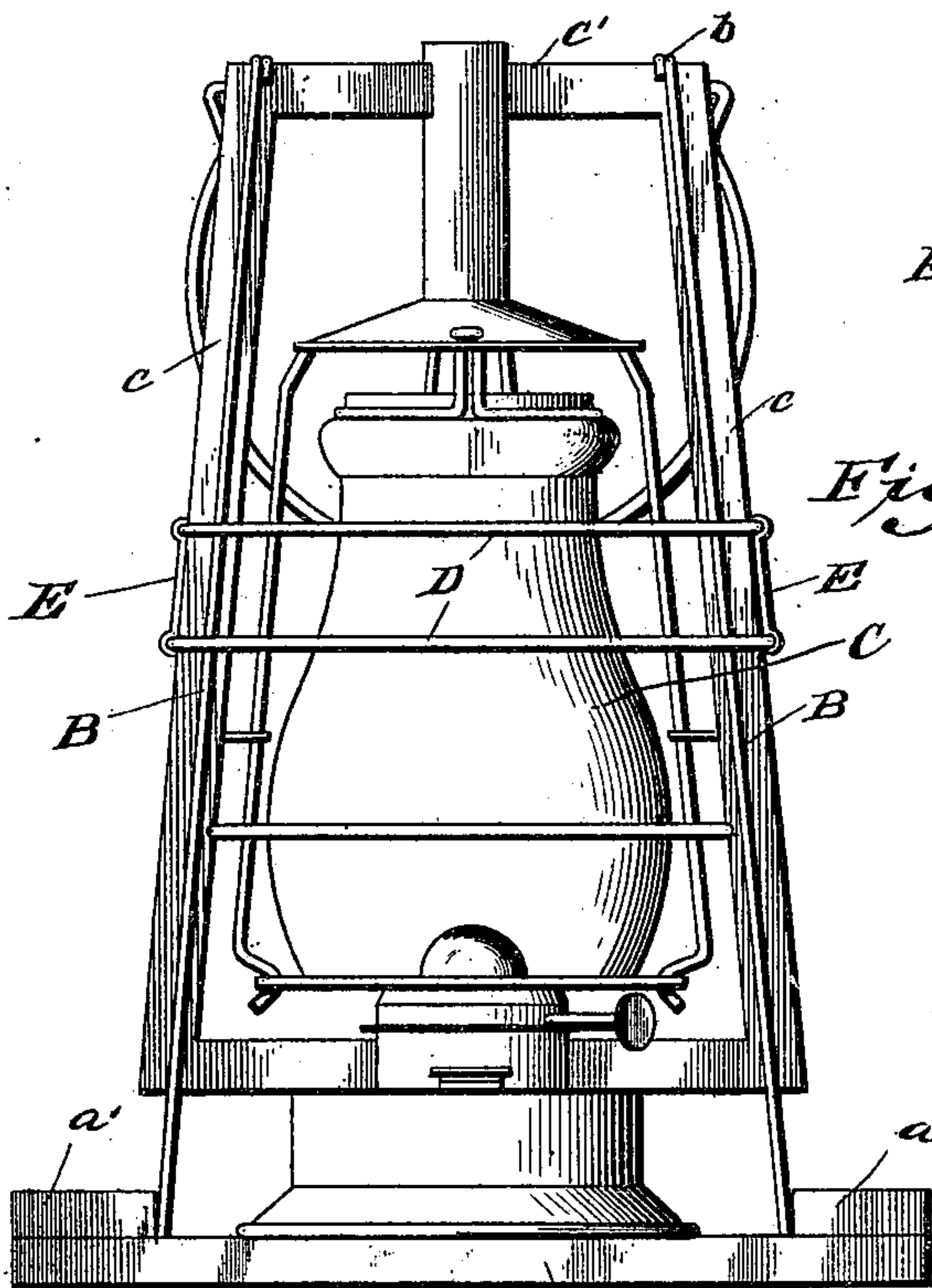


Fig. 2.



Witnesses:

Geo. S. Byrne.
W. S. Beall.

Inventor:

Peter Hack,

by

John S. Thomas & Co.,
attorneys.

UNITED STATES PATENT OFFICE.

PETER HACK, OF MICHIGAN CITY, INDIANA.

HEATING DEVICE FOR SLEIGHS, &c.

SPECIFICATION forming part of Letters Patent No. 641,693, dated January 23, 1900.

Application filed October 13, 1898. Serial No. 693,382. (No model.)

To all whom it may concern:

Be it known that I, PETER HACK, a citizen of the United States of America, residing at Michigan City, in the county of La Porte and State of Indiana, have invented certain new and useful Improvements in Heating Devices for Sleighs, &c.; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention is an improvement in heating devices for sleighs and vehicles, the object of the same being to provide certain attachments which are applied to an ordinary lantern for the purpose of holding the same firmly in the bottom of the vehicle and guard against accident, the said attachments permitting the lantern to be readily and conveniently disconnected and used for ordinary purposes.

With the above objects in view the invention consists in the combination, with a lantern, of the spring bars or holders and a dress-guard detachably connected to the frame of the lantern, said dress-guard also serving to retain the spring-bars in place.

The following specification enters into a detail description of my invention, reference being had to the accompanying drawings and to letters of reference thereon which designate the different parts, and what I consider to be novel in the construction and arrangement is more particularly set forth in the appended claim.

In the drawings, Figure 1 is a view showing the application of my invention. Fig. 2 is a side elevation. Fig. 3 is a detail view of the dress-guard. Fig. 4 is a detail end view of the holder.

With reference to said drawings, A designates a base-board or metal plate, which is provided with holes for attaching the same to the bottom of a sleigh or vehicle by means of screws, the said board being also provided with end pieces *a' a'* on its upper side, for the purpose hereinafter explained. Extending upward from this base-board are two sets of spring bars or wires B B, the ends of which are bent into hooks *b*, projecting toward each other. Each set consists of a pair of wires formed from a single length, which is first

bent into a loop, and after passing the members up through the base-board the terminals are bent into the hooks *b*, the connecting portion of the loop being seated in a recess therefor in the under side of said base-board. The members of the wire loops which form the spring bars or holders are located adjoining the inner edge of the end pieces *a'*, so as to be reinforced thereby, and those of each set are separated, as shown.

In use a lantern C, having a frame presenting the side pieces *c c* and top cross-piece *c'*, is placed between the upright wires or spring-bars and the said bars brought into engagement with the frame, bearing against the opposite sides of the side pieces *c*, while the hooked ends engage the upper cross-bar *c'*. The lantern is thereby held firmly in place upon the base-board, and by attaching the device to the floor or bottom of a sleigh the lantern will form practically a heating-stove, it being understood that a cover or lap-robe is placed over the lantern and lap of the occupant of the vehicle to confine the heat and have it serve to keep the feet and lower extremities of the occupant warm.

I am aware that it is not broadly new to place a lantern under a lap-robe or upon the bottom of a sleigh or vehicle for the purpose of generating heat; but in order to prevent accidents by an overturning of the lantern I have devised the holder hereinbefore described, which not only provides a firm support for the lantern, but also permits of the lantern being readily disconnected from the support for ordinary use. In detaching the lantern it is only necessary to move the spring-bars laterally out of engagement with the frame of the lantern.

I lay no claim to the lantern herein shown, but prefer to use this style, as the wick can be readily and conveniently lighted without removing said lantern from the holder, the construction permitting the globe to be raised to expose the burner.

In connection with the holder hereinbefore described I employ a dress-guard to form a protection around the globe of the lantern, the said guard consisting of two rings D D, which are connected at opposite sides by plates E, having inturned edges, as shown. In applying this dress-guard it is placed over

the frame of the lantern and the plates brought into engagement with the side pieces of said frame, with the inturned edges embracing said side pieces. The guard is thereby
5 held securely in place, forming several rings in addition to the one with which the lantern is already provided. This guard further serves the purpose of holding the spring-bars in place, preventing lateral movement of the
10 latter, it being understood that the guard is placed in position after the spring-bars are brought into engagement with the lantern.

From the foregoing description, in connection with the accompanying drawings, it will
15 be noted that I provide simple and effective devices by which an ordinary lantern can be made to serve as a heating-stove for sleighs and other vehicles without liability of accident, as the said lantern is firmly held and
20 protected, and its use is not limited to this particular purpose.

Having thus described my invention, what I claim as new, and desire to protect by Letters Patent, is—

In a heating device for sleighs and vehicles, 25 the combination with a lantern having side pieces and a top cross-piece, of upright wires or spring-bars secured to a suitable support and provided with hooks at their upper ends; together with a dress-guard comprising rings 30 separated from each other, and plates connecting the rings at opposite sides, the plates having inturned edges, and adapted to slidably engage the side pieces of the lantern and hold the retaining-wires in place, substan- 35 tially as shown and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

PETER HACK.

Witnesses:

H. W. WORDEN,
M. H. WEIR.