

(No Model.)

A. B. CARLL.
PIPE THIMBLE.

No. 470,845.

Patented Mar. 15, 1892.

FIG - 1 -

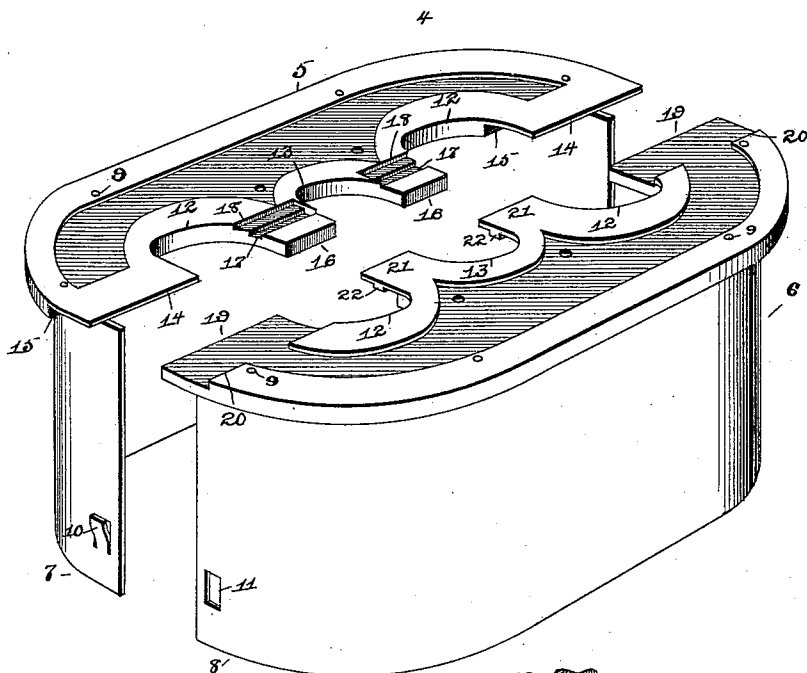
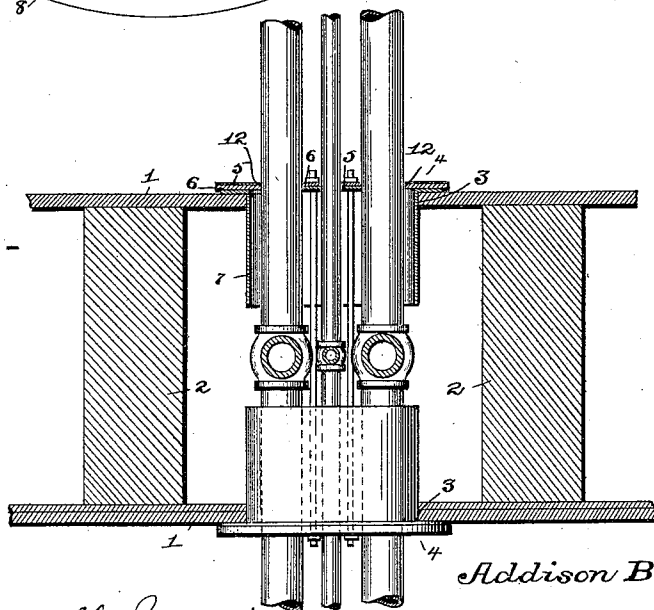


FIG - 2 -



Witnesses

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By his Attorneys,

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Addison B. Carll.

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UNITED STATES PATENT OFFICE.

ADDISON B. CARLL, OF JERSEY CITY, NEW JERSEY.

PIPE-THIMBLE.

SPECIFICATION forming part of Letters Patent No. 470,845, dated March 15, 1892.

Application filed July 24, 1891. Serial No. 400,612. (No model.)

To all whom it may concern:

Be it known that I, ADDISON B. CARLL, a citizen of the United States, residing at Jersey City, in the county of Hudson and State of New Jersey, have invented a new and useful Pipe-Thimble, of which the following is a specification.

My invention relates to improvements in pipe-thimbles which are designed to clamp around pipes passing through the floors and ceilings of a building, and in this connection is especially designed to be used with steam-heating apparatus where it is necessary to pass the pipes through the flooring and ceiling to connect with the various radiators throughout the building; and it has for its object to provide a device of this character that will be simple in construction and will effectively attain the objects for which these thimbles and plates are used.

To this end the invention consists in sectional floor and ceiling plates used with the ordinary sleeves to form pipe-thimbles, which are constructed and combined in the manner hereinafter more fully described, illustrated in the accompanying drawings, and specifically pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a perspective view of floor and ceiling plate or a pipe-thimble constructed in accordance with my invention, the two parts thereof being in position for assembling. Fig. 2 is a vertical sectional view of a section of flooring and ceiling provided with pipe-thimbles constructed in accordance with my invention.

Referring to the accompanying drawings, 1 1 designate the flooring and ceiling, between which are the ordinary joists 2, and are provided with the registering holes or perforations 3, which are cut for the reception of the steam or other pipes and of the requisite size to receive the inclosing plates or thimbles which surround the pipes. The plates or thimbles 4, that are adapted to surround and inclose the pipes upon the floor and ceiling and over the perforations 3 therein, are sectional, being composed of the opposite locking-plates 5 and 6, which are constructed so as to accommodate as many pipes as may be desired and to conform to the shape of the hole over which they are placed. Depending from the outer under edges of

each section of the thimble are the sleeves 7 and 8, which are suitably secured to said sections by means of rivets 9 or other connecting means. The depending sleeve 7 is provided at both ends, near its lower edge, with the tongues 10, while the opposite sleeve upon the opposite plate is provided with the slots 11, which are engaged by the tongues 10 when both sleeves overlap each other and serving to additionally lock the plates 5 and 6 together.

As illustrated in the drawings, the plate 5 is provided with the main semi-cylindrical recesses 12 and the central smaller semi-cylindrical recess 13, all of which are designed to register with similar recesses similarly numbered in the opposite plate 6, which when the two plates are assembled together form circular openings, through which the main steam feed and return pipes and central air-pipe are designed to pass and upon which the said plates are designed to be firmly clamped when drawn together by the locked and overlapping sleeves. At each end of the plate 5 and upon the outer ends of the semi-cylindrical recesses are formed the tongues or reduced ends 14, under which are located the shoulders 15, while on both sides of the central smaller recess 13 are the oppositely-reduced portions 16, both of which are provided with the longitudinal notches or grooves 17 and the rear abutting shoulders 18. The opposite section 6 is provided at each end thereof with the reduced portions 19, which are provided with the rear abutting shoulders 20. The said reduced portions 19, when the two sections of the thimble are assembled, are overlapped by the tongues 14 of the opposite plate, which fit neatly thereover, and are designed to bear against the shoulders 20, forming a neat and tight joint, while the front edges of the reduced portions 19 are also designed to abut against the under shoulders 15, located under and behind the projecting tongues 14, which form together a neat and solid joint. The plate 6 is further provided on both sides of the central smaller recess 13 with the tongues or reduced projections 21, which are provided on their under sides with longitudinal lugs 22, which when the central tongues 21 overlap the reduced portion 16 of the opposite plate 5 are designed to engage the longitudi-

nal grooves or recesses 17, while the joint is made perfect by the front ends of said tongues 21 abutting neatly against the rear shoulders 18, formed in the opposite section.

5 It is thought that the construction and operation of my invention is now apparent without further description. By this construction the sleeve can be placed around the pipes in the hole cut through the floor and ceiling and
10 held there by suitable means until the plates are subsequently placed thereon. This will be found necessary when there is a coupling fitting on the pipe close above the floor, which is often the case; but in either event, as can
15 be readily seen, the overlapping sleeve and the metal of plates connected thereto have sufficient spring to firmly lock all parts together and in close contact with the encircled pipes.

20 As said, the description and drawings show the plates provided with perforations to receive a series of pipes; but the same may be conveniently constructed for single or double pipes and locked together in the same manner,
25 as described, without departing from the nature of my invention.

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

30 1. In a pipe-thimble, the same comprising a sectional floor and ceiling plate, the opposite sections of which are provided with registering semi-cylindrical pipe-recesses forming a series of extended reduced portions or tongues,
35 the end portions or tongues of one section overlapping those of the other section and the central tongues of each section oppositely overlapping and provided with interlocking notches and lugs, substantially as set forth.

2. In a pipe-thimble, the opposite registering and locking sections comprising the floor and ceiling plate having interlocking grooves and tongues, the depending sleeve secured to the under side of one of said sections and provided at opposite ends with locking-tongues, 45 and the opposite depending sleeve secured to the under side of the opposite plate-section and provided with slots adapted to be engaged by the locking-tongues of the overlapping opposite sleeve, the spring of the metal composing the sleeve and said locking-sections serving to keep the sections of the floor and ceiling plate into engagement, substantially as set forth.

3. In a pipe-thimble, the opposite registering and locking sections comprising the floor and ceiling plate, the reduced portions and rear shoulders at both ends of one section, the overlapping tongues and abutting shoulders at both ends of the opposite section, the central reduced extensions in the section having the overlapping end tongues and provided with longitudinal grooves or recesses, the central projecting and overlapping tongues in the opposite section, provided with the depending lugs that are adapted to engage said grooves or recesses, and the depending sleeves secured to the under sides of both sections, the ends of which are designed to overlap and lock with each other, substantially as set forth. 55 60 65 70

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

ADDISON B. CARLL.

Witnesses:

CHARLES A. ROE,
J. H. MORRISON.