(No Model.)

S. VANSTONE.

PROTECTING THIMBLE FOR STEAM OR HEATING PIPES.

No. 481,126. Patented Aug. 16, 1892.

Fig. 1.

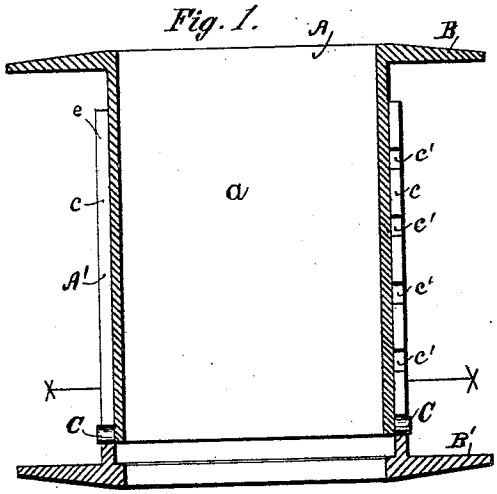


Fig. 2.

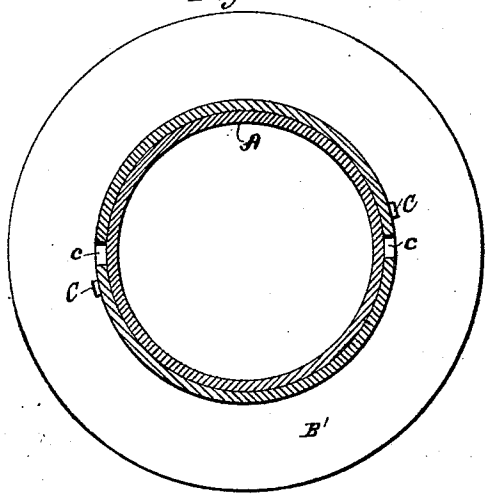


Fig. 3.

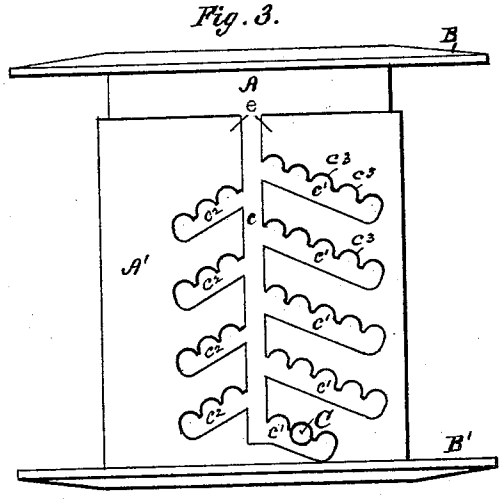


Fig. 5.

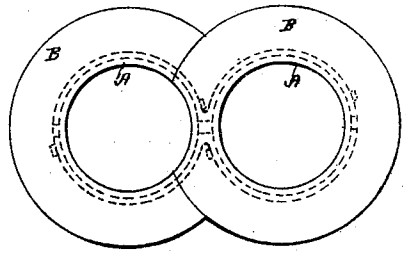


Fig. 4.

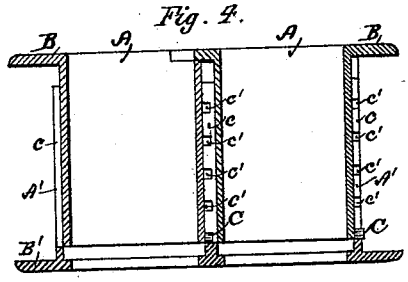
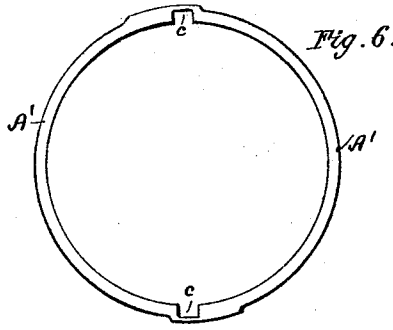


Fig. 6.



Witnesses.

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UNITED STATES PATENT OFFICE.

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PROTECTING-THIMBLE FOR STEAM OR HEATING PIPES.

SPECIFICATION forming part of Letters Patent No. 481,126, dated August 16, 1892.

Application filed August 25, 1890. Serial No. 363,031. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL VANSTONE, a citizen of the United States, and a resident of Providence, in the State of Rhode Island, have invented a new and useful Improvement in Protecting-Thimbles for Steam or Heating Pipes, of which the following is a specification.

In passing steam or heating pipes through the floors and partitions of a building it is customary to pass the pipe through a protecting-thimble, which serves to prevent the wood or other combustible material near which the pipe passes from becoming charred in lapse of time by the continued heat of the pipe and thus liable to become ignited by spontaneous combustion; but such thimbles have heretofore been made of various lengths, as required to fit the special case, and have not been made adjustable so as to fit floors and partitions of different thicknesses, and it is the object of my invention to provide an adjustable thimble which will be adapted for the said purpose; and it consists in the improved construction and arrangement of the parts of the thimble, as hereinafter fully set forth.

Figure 1 represents a longitudinal section of my improved adjustable thimble, the engaging recesses being made at one side only of the longitudinal slot or groove. Fig. 2 represents a transverse section taken in the line *x x* of Fig. 1. Fig. 3 represents a side elevation showing the engaging recesses at both sides of the longitudinal slot or groove. Fig. 4 represents a longitudinal section of the adjustable double thimble adapted for two pipes. Fig. 5 represents a top view of the same. Fig. 6 represents an end view of the outer portion of the thimble, provided with a covered slot or groove instead of the open slot, the end flange of the said portion being omitted.

In the accompanying drawings, A represents the cylindrical inner part of the thimble provided with the flange B and also with the projecting lugs C C, the cavity *a* of the said part being adapted to fit the exterior of the heating-pipe. Over the end of the said inner part of the thimble is passed the loosely-fitting outer part A′, which is provided with a flange B′ and with the opposite open slots *c c*, which extend from the end *e* of the cylindrical body A′ toward the flange B′, and notched recesses *c′ c′* may be made at one side of the slots *c c*, the said slots and recesses being adapted to receive and engage with the projecting lugs C C of the inner part A, so that whenever the inner part A is passed within the outer part A′ so that the lugs C C will enter the slots *c c* of the said outer part then by turning the said parts relatively to each other so that the said lugs will enter the opposite notched recesses the two parts will be properly held together, and in order to change the length of the adjustable thimble so formed it is only necessary to turn the parts backward so that the lugs C C can be carried into another of the series of notched recesses *c*, as required.

The improved thimble can be used in the floor or wall without other fastening, so that by my improvement one adjustable thimble will take the place of the several thimbles which have heretofore been made and held in stock at a much greater outlay than with my improvement, wherein a single thimble will do for the various lengths required by reason of its adjustability.

A thimble adapted for holding two pipes is shown in Figs. 4 and 5, in which the flanges B of the parts A A are cut away at one side in circular form, the parts A′ A′ being connected to each other by the common flange B′, the said parts being also provided with the slots and recesses for engagement with the lugs C C, as before.

Instead of extending the slots *c c* entirely through the wall of the part A′, suitable grooves *c* may be employed, as shown in Fig. 6, to receive the lugs C C, and the said grooves can be arranged upon the outer surface of the part A and the lugs upon the inside of the part A′, if preferred, and an intermediate recess c^2 can be arranged at the opposite side of the groove *c* from the recesses *c′*, as illustrated in Fig. 3, and in this case the recesses *c′* c^2 may be made shallower that when employed at one side only of the groove *c*.

When the recesses *c′* c^2 are made very narrow and close to each other, they may be

made to lie in a plane at right angles to the axis of the thimble, and the notches c^3 may be omitted.

I do not make a broad claim for an adjusting-thimble formed of telescoping tubes, the same having been used heretofore.

I claim as my invention—

1. An adjustable thimble for steam or heating pipes, comprising the flanged inner and outer telescoping portions, one of said portions being provided with the longitudinal slot and the lateral engaging recesses arranged alternately at opposite sides of the same, and the other with an engaging lug adapted to enter the longitudinal slot and the lateral engaging recesses, substantially as described.

2. An adjustable thimble for steam or heating pipes, comprising the flanged inner and outer telescoping portions, one of said portions being provided with the longitudinal slot and the inclined engaging recesses extending laterally from the same, and the other with a lug adapted to enter the longitudinal slot and the lateral inclined recesses, whereby the said portions may be readily and closely adjusted in position, substantially as described.

3. An adjustable thimble for steam or heating pipes, comprising the flanged inner and outer telescoping portions, one of said portions being provided with the longitudinal slot, and the inclined engaging recesses provided with the notches, and the other with a lug adapted to enter the longitudinal slot and the lateral inclined recesses and the notches, substantially as described.

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