July 15, 1930. W. B. SELZER 1,770,813

AIR TEMPERING APPARATUS

Filed April 9, 1928

Fig. 1.

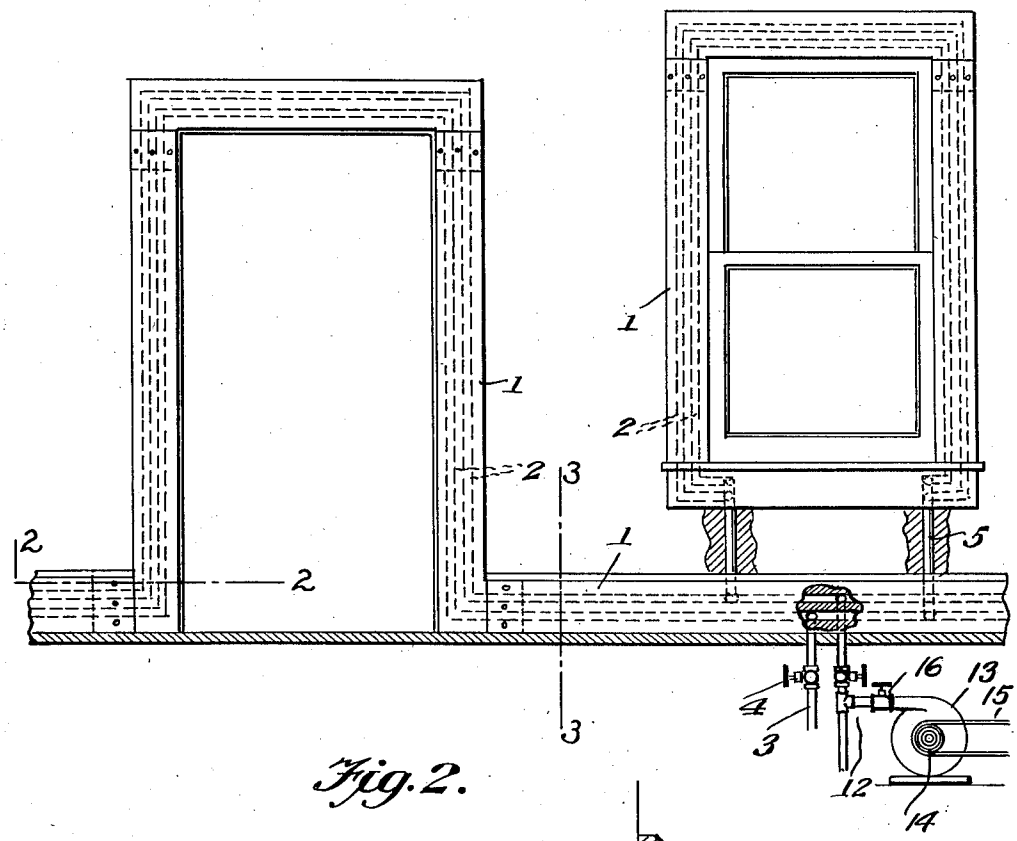


Fig. 2.

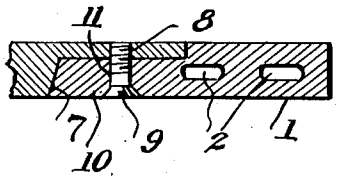


Fig. 3.

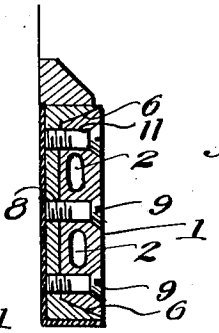


Fig. 4.

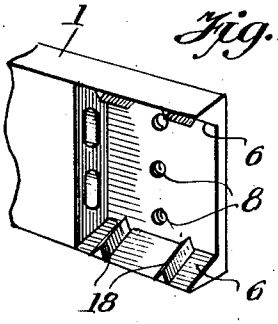
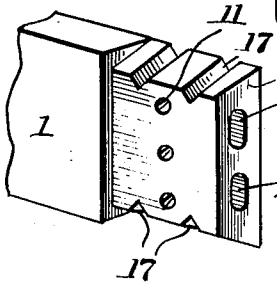


Fig. 5.



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Patented July 15, 1930

1,770,813

UNITED STATES PATENT OFFICE

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AIR-TEMPERING APPARATUS

Application filed April 9, 1928. Serial No. 268,653.

This invention relates to heating and cooling means and its general object is to provide an apparatus for heating or cooling buildings, that includes means having passages in communication with a source of heat and which also provides the base boards of a room and window and door trim with the result, the heat will be properly distributed throughout the building and in a manner whereby it is most needed, namely to warm air seeping through the window and door frames as well as the air near the floor where the temperature is generally lower than at any other place in a room.

A further object of the invention is to provide an apparatus of the character set forth that can be brought into communication with a fan for supplying air in the passages to dry the same and for the purpose of cooling the system whereby it can be used for cooling a building in hot weather if desired.

A further object of the invention is to provide an apparatus that does not employ radiators, therefore it allows maximum space within a room, and eliminates other well known disadvantageous features that accompany the use of radiators.

A still further object of the invention is to provide an apparatus of the character set forth that is simple in construction, inexpensive to install and efficient in service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a view illustrating the application of my apparatus to a room.

Figure 2 is a sectional view taken approximately on line 2—2 of Figure 1.

Figure 3 is a sectional view taken approximately on line 3—3 of Figure 1.

Figure 4 is a perspective view of one end of member forming the subject matter of the present invention and illustrates one portion of the joint for securing the members together.

Figure 5 is a similar view of the other end and illustrates the companion portion of said joint.

Referring to the drawings in detail, it will be noted that the apparatus is made up of a plurality of elongated members of substantially rectangular shape in cross section and each of these members, which are indicated by the reference numeral 1, is provided with passages 2.

In communication with the passages 2 at any appropriate place and in any one of the members are pipes 3 provided with valves 4 and disposed in communication with any suitable source of heat. One of the pipes 3 is disposed in communication with one of the passages while the other pipe is in communication with the other passage of the same member as clearly shown in Figure 1 of the drawings.

The members may be of any length, it depending of course upon where they are used, and when used as door and window frames the passages are disposed at an angle with respect to each other adjacent the ends of the members whereby the passages of one member can be arranged in communication with the passages of the adjacent member.

The passages of the members forming the trim of the window as shown in Figure 1 are disposed in communication with the passages of the member forming the base board through the medium of pipes 5.

The members are secured together in a water tight manner and one end of each member is provided with a recess having inclined side walls 6 and an inclined inner wall 7. Formed through the recessed end of the member and extending into the recess thereof are threaded openings 8 for the purpose of receiving screws 9 for securing the head 10 of a companion member in the recess as clearly shown in Figure 2 of the drawings. The heads are provided with openings 11 registering with the threaded openings 8 when the members are arranged in end to end relation to receive the screws. When so arranged, the

passages will be disposed in communication whereby circulation of the heating material will be provided. The heads are provided with inclined side walls and an inclined outer wall for the purpose of having a fitting engagement in the recesses as will be apparent.

Arranged in communication with one of the pipes 3 is a pipe 12 which is connected with a fan casing 13 having a fan therein driven by a pulley 14 from a suitable source of power through the medium of a belt 15 trained about the pulley as shown.

A valve 16 is disposed in the pipe 12 and by this construction, it will be apparent that when the system is drained the fan can be brought into communication with the passages for drying the same as well as supplying air therein for cooling a building in hot weather if it is so desired.

While I have shown the elongated members 1 having two passages therein, I want it understood that I may employ a single passage or any number, it depending upon the source of heat used and one's desires. I also wish to make it clear that any means may be employed for securing the members together.

The inclined side walls of the heads are formed with grooves 17 that are V-shaped in cross section and are adapted to accommodate tongues 18 of like shape, and which are formed on the inclined walls 6. This construction will prevent endwise strain and casual separation of the members.

From the above description and disclosure of the drawings, it will be obvious that I have provided a heating apparatus which includes members provided with a passage or passages disposed in communication with a source of heat and these members also provide the base boards and door and window trim of a room as shown.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:

1. In an air tempering apparatus, a plurality of members providing the base boards, windows and door trim of a room, said members having passages therein, means for securing said members together in a water-tight manner and arranging the passages thereof in communication, said means including a head formed on one of said members and adapted to be received in a recess formed in a companion member, and securing means disposed through openings arranged in the head and received in threaded openings in the wall of the recess of the companion member.

2. In a heating and cooling apparatus for buildings, a plurality of members providing the base boards, windows and door trim of a room and being provided with passages, means for securing said members together in a water-tight manner for arranging the passages in communication, said means including a head on one end of each member, each head being provided with transverse grooves and openings, the heads being adapted to be received in recesses formed in the opposite ends of companion members, tongues formed in said recesses and arranged to accommodate said grooves, and screws for passage through the openings and threaded openings formed in one wall of the recess.

In testimony whereof I affix my signature.

WILLIAM B. SELZER.