March 31, 1931. E. P. MARET ET AL 1,798,266

COOLING APPARATUS

Filed Aug. 12, 1929

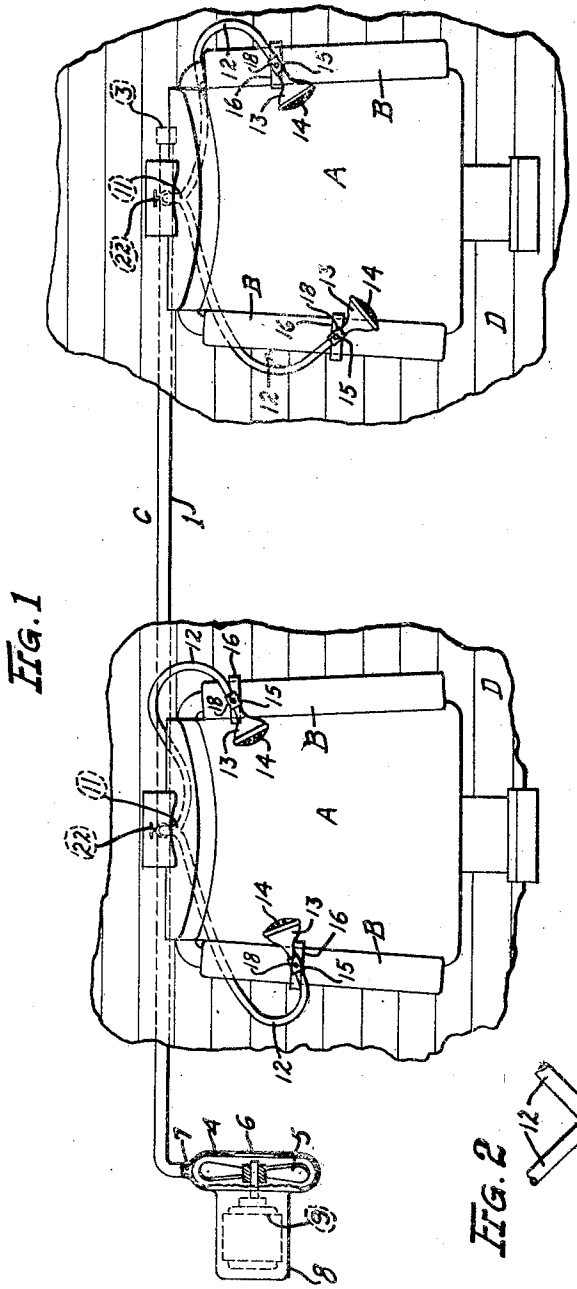


FIG. 1

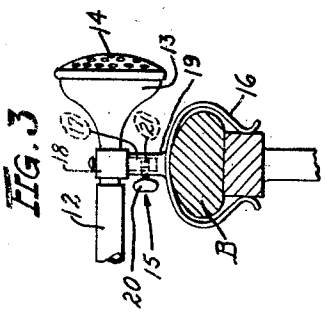


FIG. 3

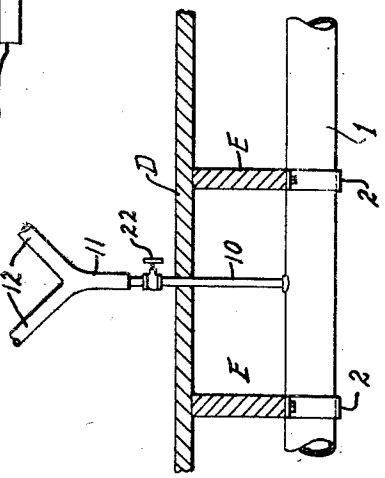


FIG. 2

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UNITED STATES PATENT OFFICE

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COOLING APPARATUS

Application filed August 12, 1929. Serial No. 385,434.

This invention relates generally to cooling systems and more specifically to cooling systems intended particularly for use in barber shops, beauty parlors and other establishments where persons receiving services are partially covered by a cloth throw, the predominant object of the invention being to provide means whereby air surrounding the bodies of persons receiving attention and beneath the cloth throws by which said persons are partially covered may be maintained in circulation to prevent said persons from becoming uncomfortably warm.

It is common practice for barbers and attendants in beauty parlors to partially cover persons on whom work is being done with large cloth throws, said throws being employed to prevent scattering of hair and preparations used about the clothes of the persons receiving attention. Ordinarily persons receiving attention of barbers and so-called beauty experts are seated in chairs and the cloth throws referred to are draped about the persons so said persons are covered from neck to ankle. It is not feasible, because of the nature of the work being done, to direct the air from electric fans directly on the persons receiving the attention of barbers and beauty experts and, therefore, during summer months when the weather is warm said persons frequently become uncomfortably warm. It is a rather simple matter to provide barber shops and beauty parlors with electric fans which are sufficient in location and number to maintain the atmosphere of the establishments in circulation but unfortunately the air which is trapped beneath the cloth throws draped about the persons being worked upon is not affected by such circulation of the atmosphere, and as this trapped air entirely surrounds the bodies of said persons they become uncomfortably warm in spite of the circulation of the atmosphere within the establishment.

In view of the foregoing we have devised the cooling system disclosed herein which briefly stated provides means whereby streams of air may be directed beneath the cloth throws by which the persons receiving attention of barbers and beauty experts are covered, whereby the air located beneath said cloth throws is maintained in circulation. The invention includes air discharge elements which are adjustably secured to the arms of the chairs in which the persons are seated thus permitting said persons to shift the positions of said air discharge elements to direct the discharge of air in the direction desired.

Figure 1 is a fragmentary plan view illustrating our improved cooling system in association with a plurality of barber or like chairs.

Figure 2 is an enlarged fragmentary sectional view illustrating a portion of the main air conduit of our system together with a fragment of one of the flexible air conductors associated therewith.

Figure 3 is an enlarged section view through an arm of one of the barber chairs illustrated in Figure 1, showing the manner in which the air discharge elements of the system are adjustably secured to the arms of the barber chairs.

In the drawing, wherein is shown for the purpose of illustration merely, one embodiment of the invention, and referring particularly for the moment to Figure 1 of said drawing, A designates chairs which may be of the type used in barber shops, beauty parlors and like establishments, said chairs being provided with the usual arms B. C designates our improved cooling system which comprises a main air conduit 1 which extends throughout the length of the establishment in which the chairs A are located, said air conduit 1 if desired and convenient being located beneath the floor D of the establishment and being secured to the joists E supporting said floor by suitable clips 2. While in the drawing we illustrate the main air conduit 1 as being located beneath the floor of the establishment this, of course, need not be so, as it may be more convenient to arrange said main air conduit above the floor, for instance, in the corner where the floor and side walls meet, or if preferred said main air conduit may be suspended from the ceiling or attached to a side wall. In the arrangement of the invention illustrated in

Figure 1, we prefer to locate the main air conduit beneath and to the rear of the chairs so the connections leading therefrom, which will be hereinafter referred to and which pass through the floor, will not prevent free movement of the attendants about the chairs.

The main air conduit 1 at one end thereof is closed by a cap 3 and at its opposite end said air conduit is connected to a blower housing 4 within which the usual blower 5 is arranged. The blower housing 4 is provided with an inlet opening 6 and a discharge opening 7, the last mentioned opening being in communication with the interior of the air conduit 1. 8 designates a housing which is associated with the blower housing 4, said housing 8 having located therein an electric motor, or other suitable power generating means 9, by which the blower 5 is actuated.

At points located immediately adjacent to the chairs A the main air conduit 1 is provided with nipples 10 which communicate with the interior of the air conduit and extend upwardly through the floor D (Figure 2), there being one of these nipples at each chair and said nipples extending through the floor at points beneath and to the rear of the chairs A. Connected to each of the nipples 10 is a flexible air conductor which comprises a single tube section 11 from which a pair of tube sections 12 branch outwardly, each of said tube sections 12 at the end thereof remote from the end which is connected to the single tube section 11 having an air discharge element 13 connected thereto. The air discharge elements 13 include each a perforated wall 14 through which air passes.

The discharge element 13 associated with each of the tube sections 12 is connected to an arm B of the chair A with which it is associated by means of a suitable clip 15, the particular clip illustrated in the drawing comprising a spring clamping element 16 which embraces an arm of the associated chair as illustrated in Figure 3, and said spring clamping element being connected to the air discharge element 13 by a swivel joint produced by an extension 17 on the portion 18 of the air discharge element, which extension is disposed in a recess formed in the member 19 extended upwardly from the spring clamping element 16. 20 designates a set screw which passes through an aperture formed in the member 19, the inner end of said set screw being extended into an annular groove 21 formed in the circumferential face of the extension 17 so as to prevent vertical displacement of said extension with respect to the member 19.

In view of the construction and arrangement of the clips 15 it is plain when the set screws 20 are unscrewed that the air discharge elements 13 may be swung in an arc of a circle about the vertically disposed axes of the extensions 17, hence air discharged from said elements 13 may be directed in various directions. It is likewise obvious that the spring clamping elements 16 may be moved longitudinally of the arms B of the chairs to locate the discharge elements 13 in various positions on said arms.

In the use of our improved cooling system air discharged by the blower 5 into and through the main air conduit 1 will pass through the flexible air conductors associated with the various chairs A, and because of the location of the discharge elements 13 on the arms B of the chairs A said air will be directed by said discharge elements beneath the cloth throws by which the persons occupying the chairs are partially covered, said cloth throws also enclosing the arms of the chairs and the air discharge elements 13. In view of the arrangement just described the air beneath the cloth throws draped about the persons in the chairs A will be maintained in circulation thus preventing said persons from becoming uncomfortably warm. As already described the air discharge elements 13 are completely adjustable hence the persons occupying the chairs may move said air discharge elements so as to direct air therefrom as desired.

Each of the nipples 10 is provided with a valve 22 whereby passage of air to the air discharge elements 13 may be regulated and cut off as desired.

An important feature of the invention resides in the face that the flexible conductors leading from the main air conduit to the chairs A permits free movement of the chairs as desired.

We claim:

1. A cooling system for barber shops and like establishments provided with chairs for persons receiving attention, comprising a main air conduit, means for causing air to pass through said main air conduit, a flexible air conductor leading from said main air conduit and having branch portions leading to opposite sides of a chair, air discharge elements at the discharge ends of the branch portions of said flexible air conductor, and means for adjustably securing said discharge elements to portions of said chair.

2. A cooling system for barber shops and like establishments provided with chairs for persons receiving attention, comprising a main air conduit, means for causing air to pass through said main air conduit, a flexible air conductor leading from said main air conduit and having branch portions leading to opposite sides of a chair, air discharge elements at the discharge ends of the branch portions of said flexible air conductor, and means for adjustably securing said discharge elements to the arm portions of said chair.

3. A cooling system for barber shops and like establishments provided with chairs for persons receiving attention, comprising a

main air conduit, means for causing air to pass through said main air conduit, a flexible air conductor leading from said main air conduit and having branch portions leading to opposite sides of a chair, air discharge elements at the discharge ends of the branch portions of said flexible air conductor, means for adjustably securing said discharge elements to the arm portions of said chair, and a valve for controlling passage of air through said flexible air conductor.

In testimony whereof, we have hereunto set our hands.

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WALTER W. WISSMANN.