Feb. 21, 1950 R. PETTICREW 2,498,342

PEDESTAL TYPE AIR CONDITIONING UNIT

Filed April 5, 1946

FIG 1

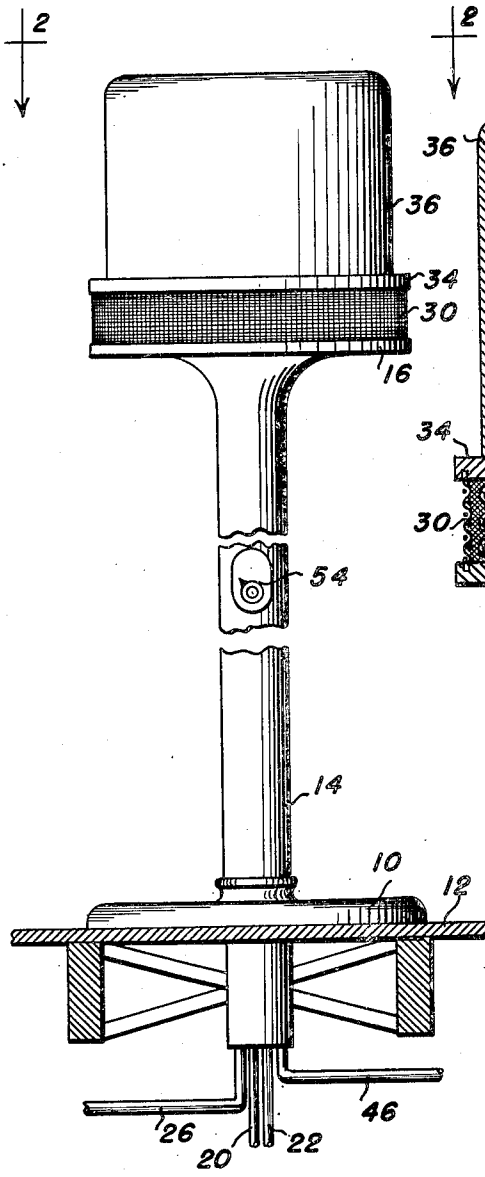


FIG 2

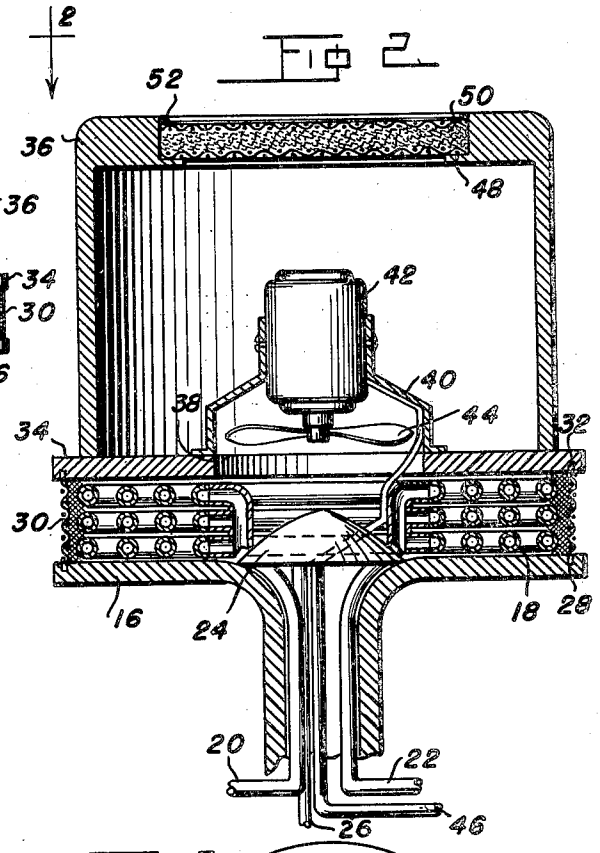
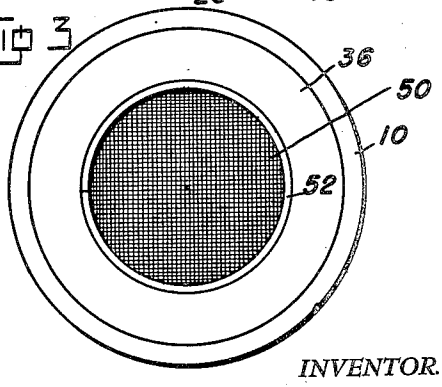


FIG 3



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Patented Feb. 21, 1950 2,498,342

UNITED STATES PATENT OFFICE

2,498,342

PEDESTAL TYPE AIR CONDITIONING UNIT

Richard Petticrew, Dearborn, Mich.

Application April 5, 1946, Serial No. 659,831

1 Claim. (Cl. 62—129)

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This invention relates to a pedestal type air conditioning unit which is especially designed for fast, easy, economical installation.

An object of the invention is to provide a cooling unit adapted to be supported on a pedestal having a fan that draws air through a filter and discharges it over the cooling coils throughout the room or enclosure in which it is installed.

Another object of the invention is to provide a device that is simple in construction, durable in use, efficient in operation and can be economically manufactured and installed.

With the above and other objects and advantages in view the invention consists of the novel details of construction, arrangement and combination of parts more fully hereinafter described, claimed and illustrated in the accompanying drawing in which:

Figure 1 is an elevational view of an embodiment of the invention;

Figure 2 is a sectional view on the line 2—2 of Figure 1 and

Figure 3 is a top plan view thereof.

Referring more in detail to the drawing the reference numeral 10 designates a base plate which as shown in Figure 1 is adapted to rest on the floor 12 and have a tubular standard 14 positioned therein and extending below the floor 12.

The standard 14 is provided with the circular head 16 which supports the cooling coils 18 having conduits 20 and 22 respectively, which extend downwardly through the standard below floor level to be connected to a compressor unit mounted in the basement or on the floor below the floor 12 on which the unit is mounted.

Centrally of the coils 18 there is provided the conical baffle plate 24 which is provided with the condensation drain 26 which also extends downwardly through the standard to emerge below the floor 12 and be connected to a suitable outlet drain on the floor below.

The head 16 is provided with an annular groove 28 adjacent the periphery thereof in the upper surface thereof to receive the articulated ring member 30 on which is mounted by means of the annular groove 32 in alignment with the groove 28, the base 34 on which is mounted the hollow circular housing 36. The base 34 centrally thereof is provided with the opening 38 over which is mounted by means of brackets 40 the motor 42 for the fan 44 and the wires for the motor are lead through the conduit 46 which extends downwardly through the standard to emerge below the floor 12 for connection to a source of current on the floor below.

The top of the housing 36 is provided with a circular seat 48 to receive the removable filter 50 which is retained in the seat by the ring 52 and a thermostat 54 on the standard interposed in the wires in the conduit 46 controls the operation

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of the refrigeration unit below the floor 12 for the cooling of the coils. The fan runs continuously but the coils are only cooled when the thermostat starts the unit below floor level.

In this particular type of unit all pipes and wiring necessary for the operation thereof are carried below floor level inside of the standard for supporting the head of the unit. Thus fast economical and easy installation is obtained since the units can be placed anywhere without interfering with business or inconveniencing the occupant of the building in which the units are installed. The unit filter is removable for the replacement thereof when dirty. The thermostat operates the refrigeration unit to cool the coils the fan draws in the air through the filter and the air striking the baffle plate flows over the coils and out the articulated ring to cover a space over the heads of the occupant of the room from where it will settle down into the use zone by gravity.

The effect of a heat exchanger is obtained by enclosing the pipes 20 and 22 in the tubular standard, thus saving space.

It is believed that the operation and construction of the cooling unit will be apparent to those skilled in the art and it is to be understood that changes in the details of construction, arrangement and combination of parts may be resorted to provided they fall within the spirit of the invention and the scope of the appended claim.

Having thus described the invention what is claimed as new and desired to be secured by Letters Patent is:

An air conditioning unit comprising a base plate, a tubular standard mounted on said plate, a head positioned on said standard, said head having an opening, cooling means mounted on said head, a base member having an opening, said member being positioned adjacent said cooling means, spaced from the head and having its opening in alignment with the head opening, a circular baffle plate secured to the head and positioned between the head and the base in alignment with the openings, and within the cooling means, a drain for the baffle plate, a circular housing secured to the base, said housing including a filter and air circulating means on said base and within said housing.

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The following references are of record in the file of this patent:

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