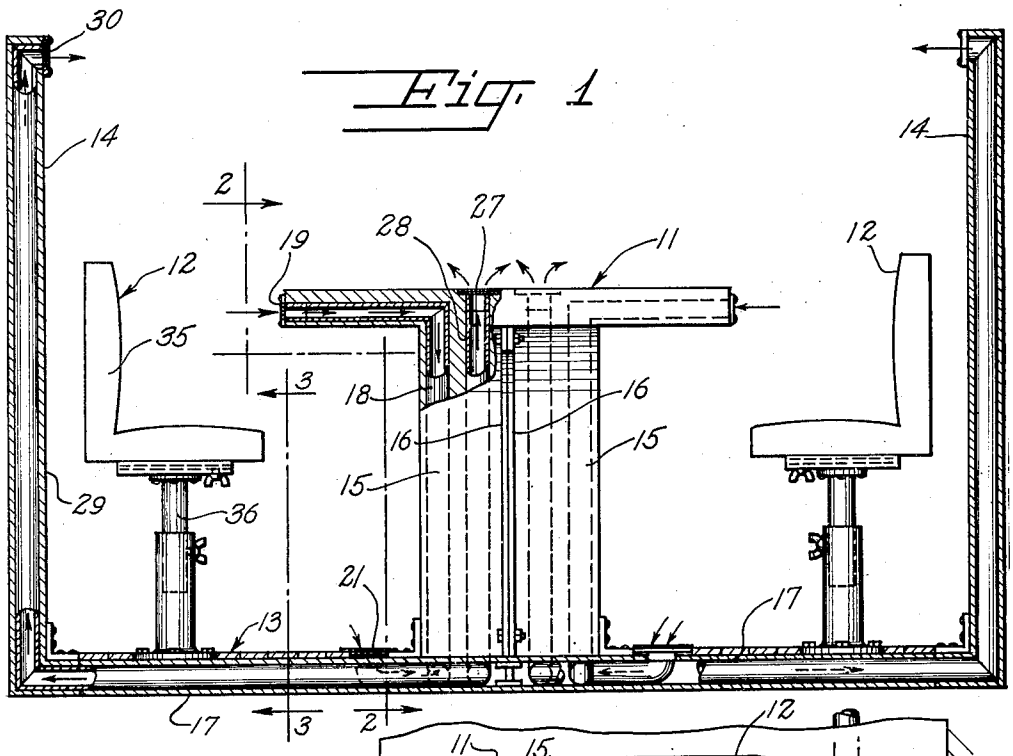
May 16, 1950 R. H. HILL 2,507,634

RESTAURANT EQUIPMENT

Filed Oct. 14, 1947 2 Sheets-Sheet 1

Fig. 1



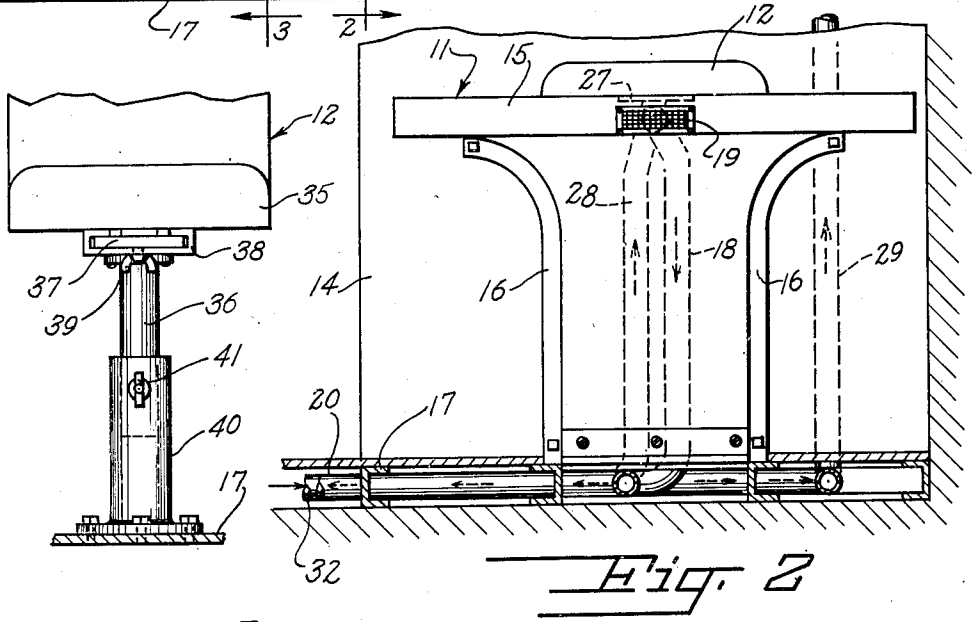


Fig. 2

Fig. 3

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RESTAURANT EQUIPMENT

Filed Oct. 14, 1947 2 Sheets-Sheet 2

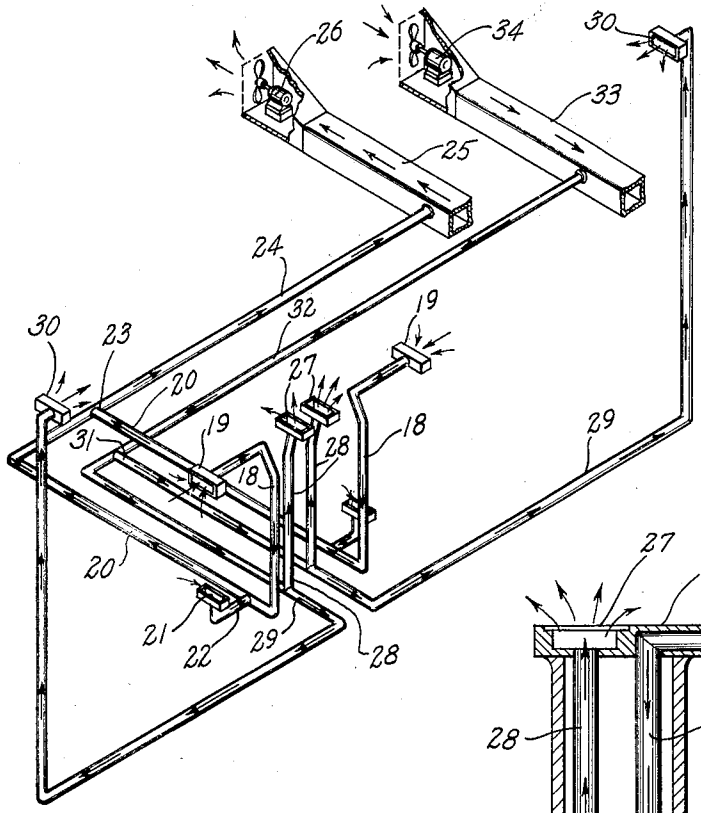


Fig. 4

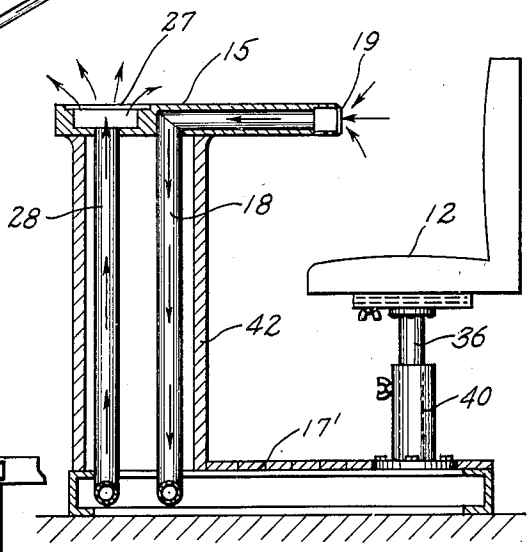


Fig. 6

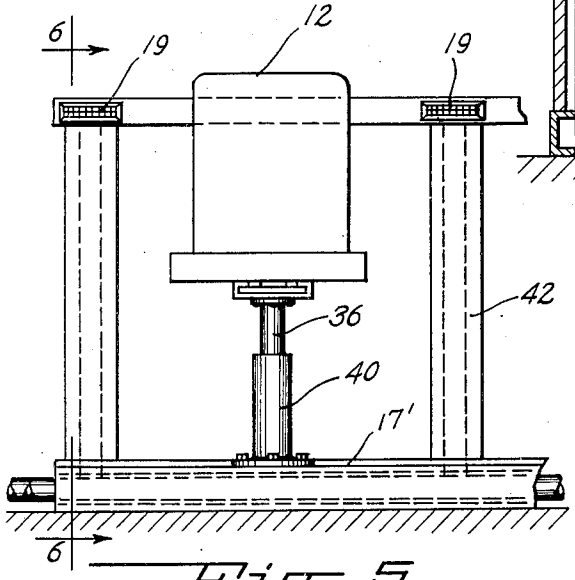


Fig. 5

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RESTAURANT EQUIPMENT

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Application October 14, 1947, Serial No. 779,764

5 Claims. (Cl. 98—33)

1

This invention relates to restaurant dining fixtures and more particularly to restaurant table and chair equipment of the ventilated type.

A main object of the invention is to provide a novel and improved restaurant table and chair unit which is simple in construction, easy to install, and which provides efficient ventilation and improved eating comfort for a person using the unit.

A further object of the invention is to provide an improved restaurant dining unit and a method of ventilating the unit so that stale odors and foul air will be carried away from the dining unit at all times, and fresh air will be continuously furnished thereto.

A still further object of the invention is to provide an improved combination counter and seat unit for restaurants and the like which is inexpensive to manufacture, versatile in the manner in which it may be connected and arranged with respect to like units, and provided with built in ventilating means so that the air adjacent a person seated at the unit may be circulated to remove stale air and unpleasant odors and to replenish the supply of fresh air at the unit.

Further objects and advantages of the invention will become apparent from the following description and claims, and from the accompanying drawings, wherein:

Figure 1 is a transverse cross-sectional view taken through a dining booth constructed in accordance with the present invention.

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

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

Figure 4 is a perspective diagrammatic view illustrating the ventilating duct arrangement employed in the dining booth assembly of Figure 1.

Figure 5 is an elevational view of a basic dining unit according to the present invention, forming part of a lunch counter.

Figure 6 is a cross-sectional view taken on line 6—6 of Figure 5.

Referring to the drawings, and more particularly to Figures 1 to 4, a dining booth is illustrated comprising a table, 11 and two chairs 12, 12, said table and chairs being rigidly secured to a hollow base support 13. The base support 13 has hollow end walls 14, 14 rising vertically therefrom to define the booth enclosure. The table 11 comprises two symmetrical sections 15, 15 having edge flanges 16, 16 at their columnar portions which are bolted together in the central transverse vertical plane of the unit. Each table

2

section 15, combined with a section 17 of the base support, a chair 12 and a vertical wall section 14 defines a subassembly of the booth unit. To assemble the booth, two such subassemblies are secured together at their flanges 16, 16, as above described.

Each table section 15 contains an air intake duct 18 extending from a grille 19 at the edge of the table top opposite the associated chair 12 and extending through the vertical columnar supporting portion of the table to an exhaust duct 20 contained in the associated base section 17. Located in the base section 17 adjacent each columnar table support is a second intake grille 21, connected by a duct 22 to the exhaust duct 20 of the subassembly. The exhaust ducts 20 of the joined subassemblies are connected together at 23 to a common duct 24 which in turn is connected to a main exhaust duct 25. A suction fan 26 is provided in main duct 25 to create the required draft therein.

The top of each table section 15 is provided adjacent the transverse plane of the joining flanges 16, 16 thereof with a fresh air discharge grille 27 which is connected to the end of a fresh air duct 28 extending vertically through the vertical columnar support of the table section and connected at its bottom end to a fresh air duct 29. Duct 29 extends through the base 17 of the subassembly to the associated hollow side wall 14 thereof and rises in said side wall to an inwardly directed discharge grille 30 adjacent the top of the wall. The ducts 29 of the joined subassemblies are connected together at 31 to a common fresh air feed duct 32. Feed duct 32 is connected to a main fresh air feed duct 33. Feed duct 33 contains an intake blower fan 34 adapted to draw into the main duct 33 the required amount of fresh air to be furnished to the various booth fresh air discharge grilles.

In operation, stale air is exhausted from the interior of the booths through the intake grilles 19 and 21 and the respective exhaust ducts 18, 22, 20 and 24 to the main exhaust duct 25. At the same time, fresh air is furnished to the interior of the booths from the main supply duct 33 through the respective feed ducts 32, 29 and 28 to the fresh air registers 30 and 27. In this manner, the air adjacent each seat 12 is kept fresh and all stale air and disagreeable odors are continuously removed.

Each seat 12 comprises a preferably upholstered top portion 35 adjustably secured to a vertical post member 36, said top portion being adjustable forwardly and rearwardly with re-

spect to said post member. Secured to the bottom of each portion **35** is a flanged bar **37** slidably received in a channel member **38** secured to the top of the associated post member 36, the sliding fit of bar **37** in channel member **38** permitting the aforesaid adjustment. A wing bolt **39** extends through a slot in channel member **38** and is threaded into the bar **37**, whereby the top seat portion **35** may be locked in a horizontally adjusted position. Post member **36** is telescopically received in a vertical sleeve member **40** secured to the base section **17** and may be secured in a vertically adjusted position in said sleeve member by a wing bolt **41** threaded through the sleeve member **40** and engaging the post member.

In the arrangement shown in Figures 5 and 6, individual subassemblies each comprising a table section **15** mounted on a hollow floor section **17'** are secured together in an end-wise arrangement to form a counter. The chairs **12** are mounted on the joined floor sections **17'** midway between the intake grilles **19**, **19** of adjacent sections, as shown in Figure 5. The individual subassemblies are each provided with hollow vertical column members **42** enclosing the exhaust and feed ducts **18** and **28**. Although base stale air exhaust registers and conduits such as are shown at **21** and **22** in the embodiment of Figures 1 to 4 are not shown in the embodiment of Figures 5 and 6, they may be employed, if desired, in the same manner as in the embodiment of the invention previously described.

By connecting two of the individual subassemblies shown in Figures 5 and 6 back to back, a dining table and chair unit may be constructed similar to that shown in Figures 1 to 4 but without the side booth-defining vertical walls **14**, **14**.

The table top sections and floor sections may also be made with arcuate front and rear edge contours so that counters of circular or other arcuate shapes may be formed by connecting individual subassemblies together in endwise fashion.

Although certain specific embodiments of ventilated dining fixtures have been disclosed in the foregoing description, it will be understood that various modifications within the spirit of the invention may occur to those skilled in the art. Therefore, it is intended that no limitations be placed on the invention except as defined by the scope of the appended claims.

What is claimed is:

1. A restaurant table and chair construction comprising a floor base, a table mounted thereon including a vertical column surmounted by a horizontal table top, a chair mounted on said base adjacent to said table, a suction conduit extending beneath said base having a first portion rising along said column and a second portion extending horizontally along said table top, said table top having a vertical edge facing said chair, a suction grill in the edge of said table top facing said chair connected to said second portion whereby room air in the vicinity of said suction grill is drawn into said suction conduit, a fresh air supply conduit extending beneath said base having a first vertical portion rising through said column, and a fresh air vent in the top of said table top at a point remote from the said edge of the table top whereby fresh air is dispensed in the vicinity of said table top and said chair.

2. A restaurant table and chair construction comprising a floor base, a table mounted thereon including a vertical column surmounted by a horizontal table top, a chair mounted on said base adjacent to said table, a suction conduit extending beneath said base having a first portion rising along said column and a second portion extending horizontally along said table top, said table top having a vertical edge facing said chair, a suction grill in the edge of said table top facing said chair connected to said second portion whereby room air in the vicinity of said suction grill is drawn into said suction conduit, a fresh air supply conduit extending beneath said base having a first vertical portion rising through said column, and a fresh air vent in the top of said table top at a point remote from the said edge of the table top whereby fresh air is dispensed in the vicinity of said table top and said chair, said construction further comprising a vertical wall rising from said base behind said chair, said fresh air supply conduit having a second vertical portion rising behind said wall, and a second fresh air dispensing grill in said wall at an elevation above said chair and connected to said second vertical fresh air conduit portion.

3. A restaurant table and chair construction comprising a floor base, a table mounted thereon including a vertical column surmounted by a horizontal table top, a chair mounted on said base adjacent to said table, a suction conduit extending beneath said base having a first portion rising along said column and a second portion extending horizontally along said table top, said table top having a vertical edge facing said chair, a suction grill in the edge of said table top facing said chair connected to said second portion whereby room air in the vicinity of said suction grill is drawn into said suction conduit, a fresh air supply conduit extending beneath said base having a first vertical portion rising through said column, and a fresh air vent in the top of said table top at a point remote from the said edge of the table top whereby fresh air is dispensed in the vicinity of said table top and said chair, said table column being hollow and enclosing the related portions of the suction and fresh air supply conduits, and said table top being hollow and enclosing the related portion of said suction conduit.

4. A restaurant table and chair construction comprising a floor base, a table mounted thereon including a vertical column surmounted by a horizontal table top, a chair mounted on said base adjacent to said table, a suction conduit extending beneath said base having a first portion rising along said column and a second portion extending horizontally along said table top, said table top having a vertical edge facing said chair, a suction grill in the edge of said table top facing said chair connected to said second portion whereby room air in the vicinity of said suction grill is drawn into said suction conduit, a fresh air supply conduit extending beneath said base having a first vertical portion rising through said column, and a fresh air vent in the top of said table top at a point remote from the said edge of the table top whereby fresh air is dispensed in the vicinity of said table top and said chair, said base being hollow and enclosing said suction conduit and said fresh air supply conduit, and means securing said table column and said chair on the upper wall of said hollow base, whereby said base, chair, and table form a unit.

5. A restaurant table and chair construction comprising a floor base, a table mounted thereon including a vertical column surmounted by a horizontal table top, a chair mounted on said base adjacent to said table, a suction conduit extending beneath said base having a first portion rising

along said column and a second portion extending horizontally along said table top, said table top having a vertical edge facing said chair, a suction grill in the edge of said table top facing said chair connected to said second portion whereby room air in the vicinity of said suction grill is drawn into said suction conduit, a fresh air supply conduit extending beneath said base having a first vertical portion rising through said column, and a fresh air vent in the top of said table top at a point remote from the said edge of the table top whereby fresh air is dispensed in the vicinity of said table top and said chair, said construction further comprising a vertical wall rising from said base behind said chair, said fresh air supply conduit having a second vertical portion rising behind said wall, and a second fresh air dispensing grill in said wall at an elevation above said chair and connected to said second vertical

fresh air conduit portion, said base and said vertical wall being hollow and assembled together with their interiors in communication and enclosing the related portions of said suction and fresh air supply conduits, and means securing said table and said chair on the upper wall of said base, whereby said base, said vertical wall, said table and said chair form a unit.

RALPH H. HILL.

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