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Ripley

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[54] **MAINTENANCE ARRANGEMENT FOR A** 4,637,347 1/1987 Troy 122/20 A

FURNACE

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[57] **ABSTRACT**

The present arrangement includes a removable, sealable plate located over a port in the side of a vacuum furnace chamber, which port lies opposite a heat exchanger.

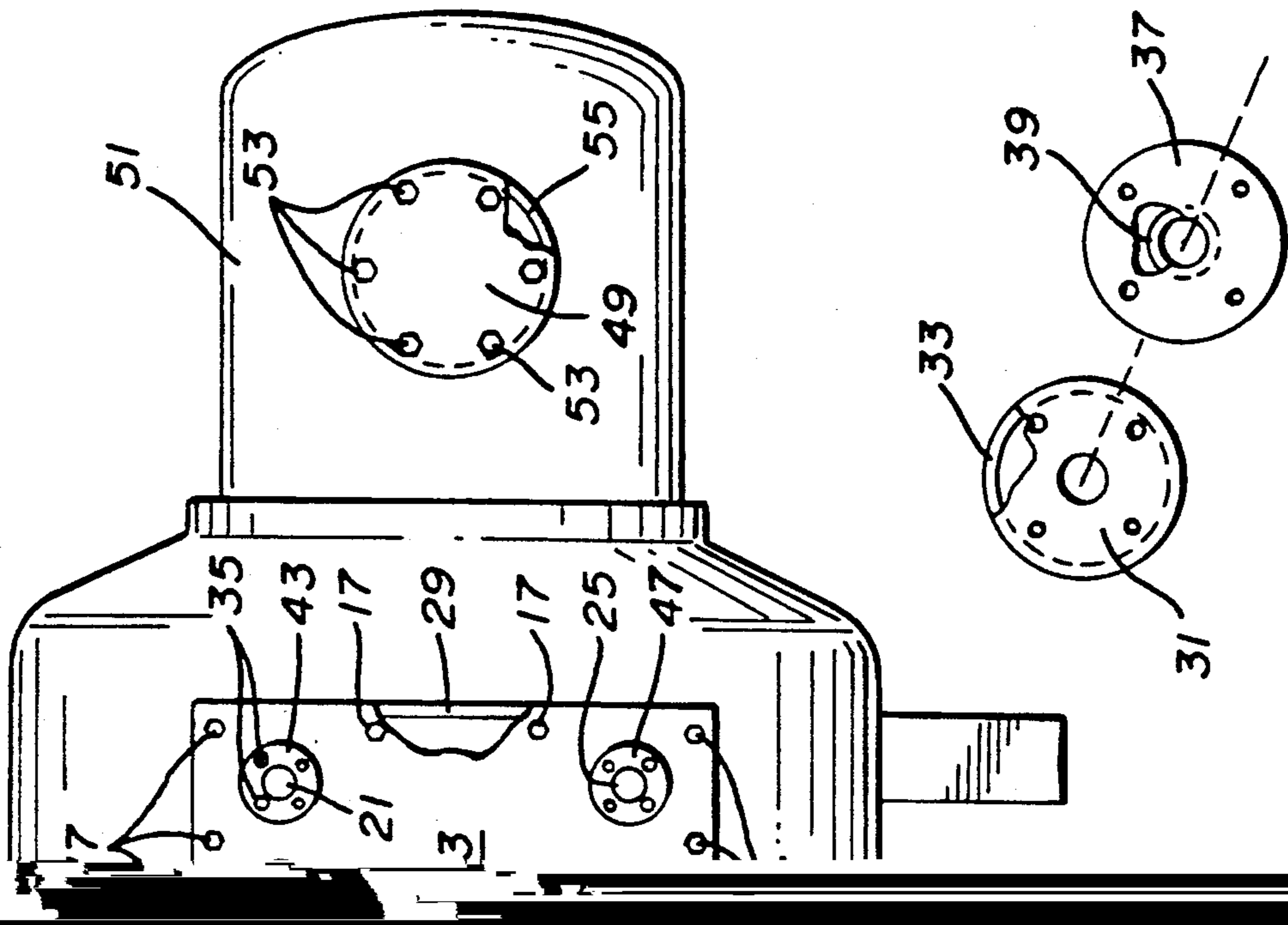
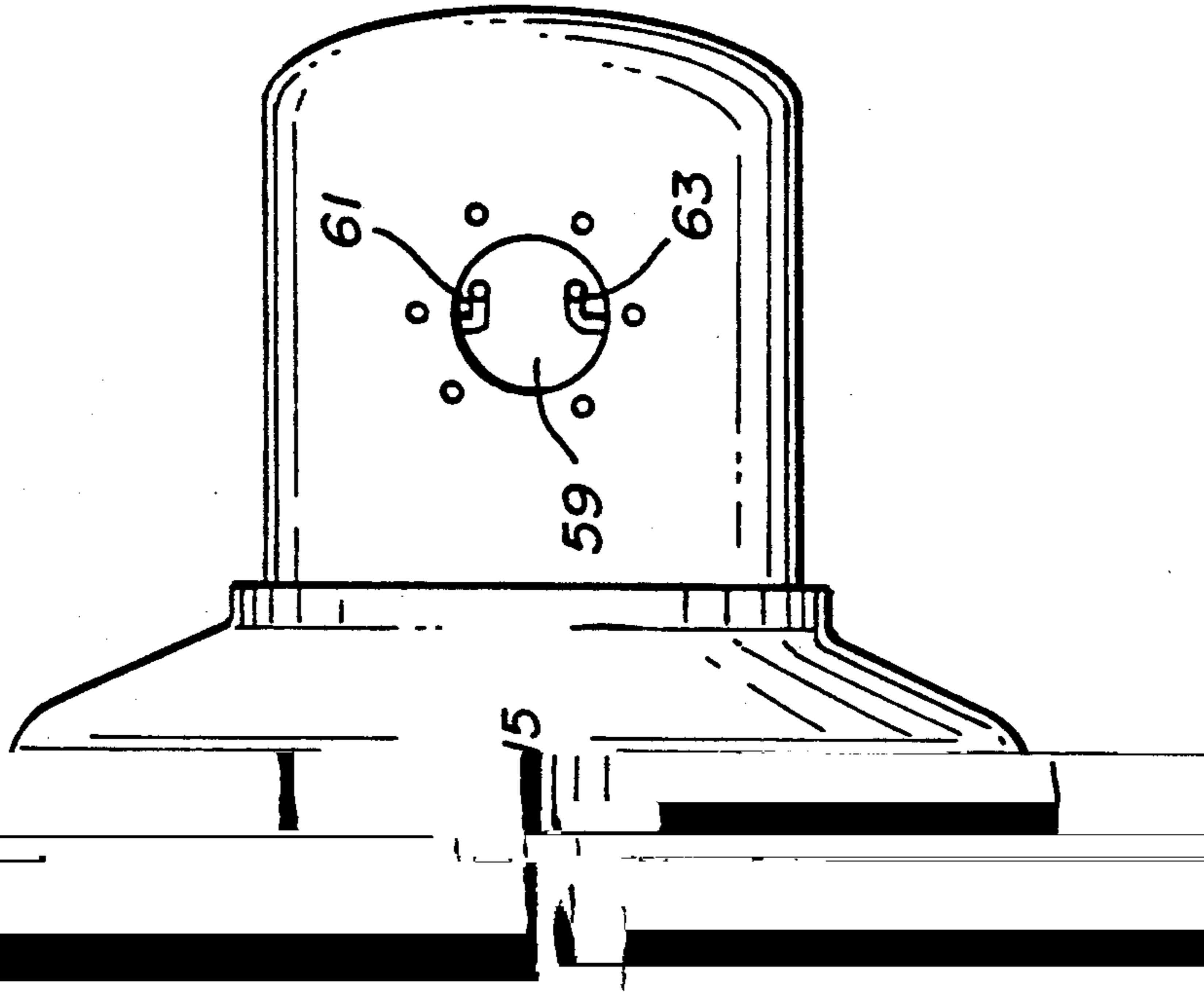


FIG. 3

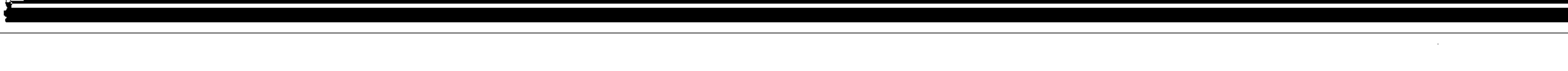


FURNACE

BACKGROUND OF THE DISCLOSURE

In many furnace technologies, all

The objects and features of the present invention will be better understood when the following description is studied in conjunction with the drawings wherein:
5 FIG. 1 is a pictorial schematic depicting the vacuum



changer 27 can be moved orthogonally to the axis of the

said aperture means; guide means disposed in close

to slide, on the four guides 57, into and out of port 15. In the event that the heat exchanger 27 needs a repair, or some other form of maintenance, the cover plate 13 is removed by removing the bolts 17, and the heat exchanger 27 is slid through the port 15 without any necessity to remove other parts within the chamber 11 (such as the hot zone).

Also in FIG. 2 there is shown aperture 59 which is to

enable said movable heat exchanger means to be moved into and out of said vacuum chamber means through said aperture means; cover plate means formed to fit over said aperture means; sealing means formed to fit with said cover plate means and disposed to form sealed edges in re-

covered by cover plate 49 (shown in FIG. 1). As can be gleaned from FIG. 2, two extensions, 61 and 63, are available through aperture 59. The two extensions 61 and 63 are connected to the lubrication system of a furnace

said vacuum furnace chamber means; and means to secure said cover plate means to said vacuum furnace chamber means.