

[54] VACUUM FURNACE ARRANGEMENT
HAVING AN IMPROVED HEATING
ELEMENT MOUNTING MEANS

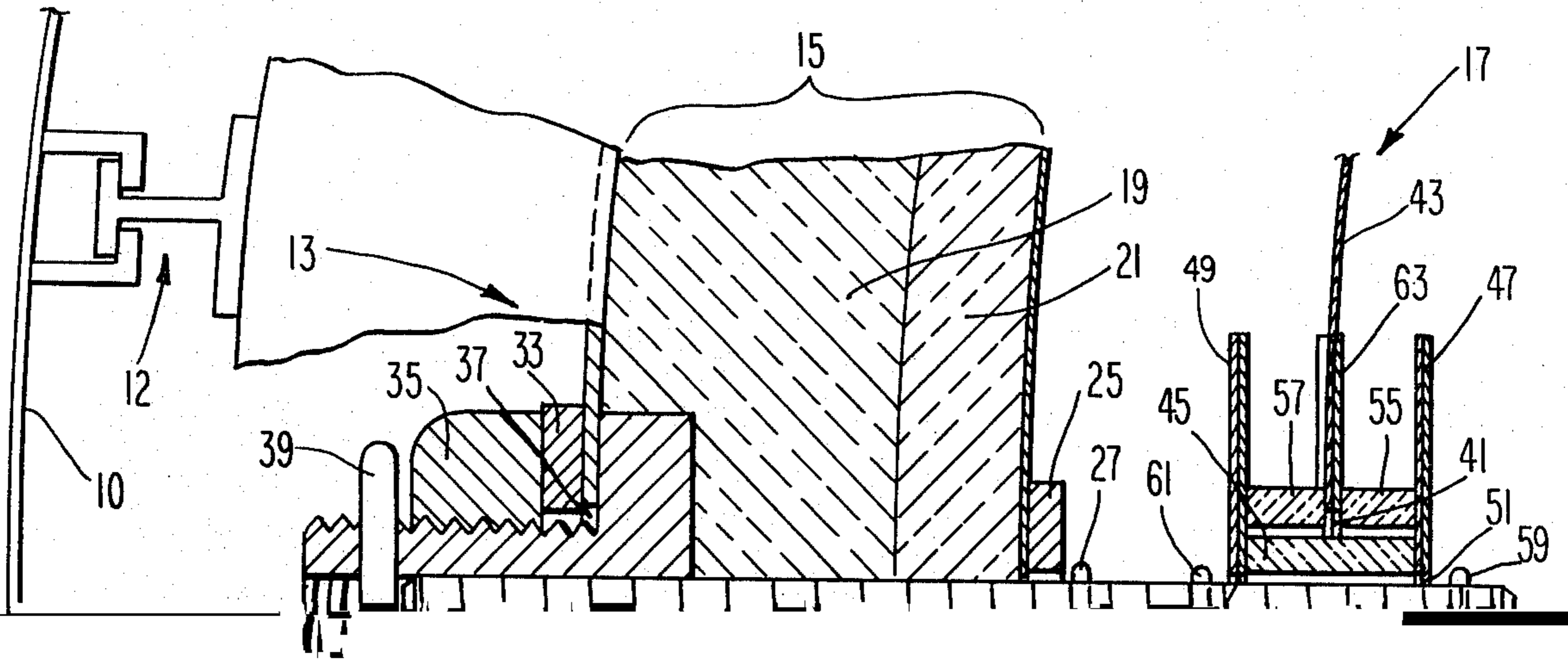
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several locations, to the outside wall and passing in-
wardly therefrom, through the heat insulating material,
are a number of molybdenum rods. A heating element
located in the hot zone chamber, in the preferred em-
bodiment, is a flat strip of molybdenum, formed to ap-
proximate a circle, and which has apertures located
therein with said rods passing therethrough. At each

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sleeve fitted over the rod to keep the rod electrically
insulated from the heating element. The long sleeves in



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AN IMPROVED HEATING ELEMENT
MOUNTING MEANS

BACKGROUND OF THE INVENTION

It is well known that in vacuum furnaces the hot zone chambers are usually constructed with a generally cy-

outside wall is for the most part external to the wall and easily removable. The long sleeves are protected by shields from material, (in vapor form transmitted from a heated work piece) which ordinarily would adhere to such sleeves, build up and form a short circuit between the heating element and the rod (the rod being a path to ground). In addition the present invention provides compensating overlays which sandwich the heating element in proximity of the apertures so that current

3

as mounting rod 29, disposed around the inner surface of the hot gas chamber to support the insulation mate

4

fashion and does not readily bend the corner to pass in the space between the shields and the heating element

... and which electrically insulates the heating ele... formed and disposed to fit over said rod in close con...

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