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(54) Title: WORK COIL FOR INDUCTION HEATED ABATEMENT APPARATUS

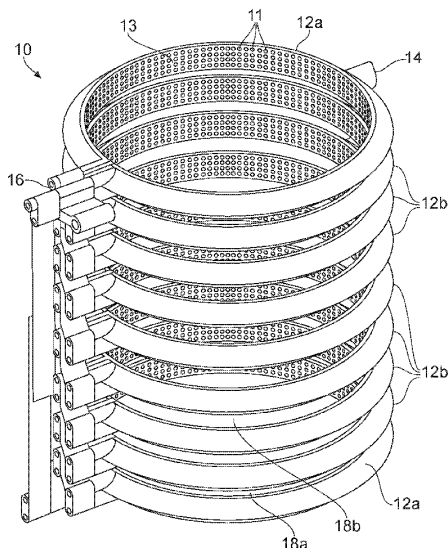


FIG. 1

(57) Abstract: An induction heated abatement apparatus for treating an effluent stream from a semiconductor processing tool is disclosed. The induction heated abatement apparatus comprises: a work coil configured to inductively heat a porous susceptor defining an abatement chamber for treating said effluent stream, wherein said work coil is hollow to define a conduit coupled with a source of reaction reagents and wherein at least one surface of said work coil defines a plurality of apertures in fluid communication with said conduit for conveying said reaction reagents from said conduit to said surface of said work coil for supply to said porous susceptor. In this way, the work coil can be protected from the effects of overheating whilst also reducing wasted heat because the heat obtained by the reaction reagents used as coolant gas can be recycled and used to facilitate abatement in the porous susceptor defining an abatement chamber. This arrangement can obviate the need for a separate supply of reaction reagents to the abatement chamber.

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