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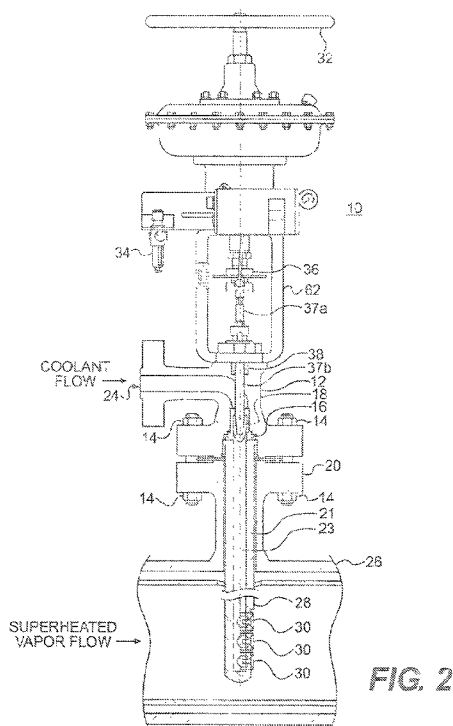
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(54) Title: ATOMIZING DESUPERHEATER SHUTOFF APPARATUS AND METHOD



(57) Abstract: The present invention is directed to a desuperheater spraying valve assembly. More particularly, the invention provides a new and improved valve assembly, whereby cooling liquid may be controllably injected into a gas or a liquid stream, typically steam, to selectively maintain the gas or liquid at a pre-determined temperature level. In a possible embodiment of the present invention, a class V valve assembly is disclosed. It comprises an actuator coupled to a plug with a valve seat in the proximity of said plug. The plug is affixed to an actuator rod which transverses the body of the valve assembly. A spray tube may be affixed to said valve seat and at least one spray nozzle is affixed to a to the spray tube. The plug and said valve seat are conical in shape as to when said plug is inserted into said valve, they form a seal.



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