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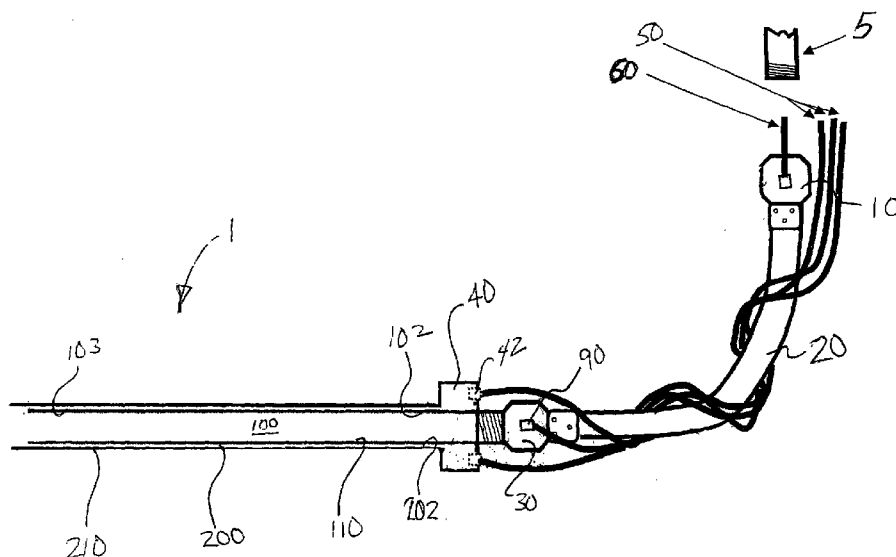
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[Continued on next page]

(54) Title: APPARATUS FOR THE GUNNING OF A REFRACTORY MATERIAL AND NOZZLES FOR SAME



(57) Abstract: An apparatus for the gunning of a material is provided having a nozzle (1) with an inner passage (100) having an inlet end (102) into which a wetted material is to be introduced and an outlet end (103) from which the material is to be sprayed. An outer passage (200) is disposed around the inner passage (100) and in fluid communication therewith and has an inlet end (102) for introducing a gas to be passed through the outer passage and impinged on the wetted material passing through the inner passage. Also provided is an apparatus for the gunning of a material having a material delivery hose for providing a material. A water inlet (10) in fluid communication (10) with the material delivery hose (20) provides water to wet the material and a nozzle (1) outputs the wetted material. A mixing chamber (30) is disposed intermediate and in fluid communication with the material delivery hose (20) and the nozzle (1) and has at least one inlet for introducing a mixing gas.

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