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[54] **SELF-CLEANING STRAINER**
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B01D 35/027; G21C 19/307

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210/416.1; 210/460; 376/313

[58] Field of Search 210/355, 415,
210/460, 416.1, 416.2, 408; 376/313

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[57] ABSTRACT

A self-cleaning, self-propelled strainer designed for installation in boiling water reactor suppression pools. The strainer is designed to prevent strainer clogging and subsequent loss of the emergency core cooling system flow during a postulated design basis loss-of-coolant accident. This self-cleaning strainer is driven by a turbine placed in the strainer flow path. The turbine drives rotation of a brush-and-plow arrangement. The wiping action of the brush and the centrifuging action of the plow remove insulation debris and other particulate matter which might be generated by the LOCA, thereby preventing the strainer from plugging.

14 Claims, 4 Drawing Sheets

