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(71) Applicant (for all designated States except US): **SPX CORPORATION** [US/US]; 13515 Ballantyne Corporate Place, Charlotte, NC 28277 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **RISTAU, David** [US/US]; 6002 Garries Road, Erie, PA 16506 (US). **IGNATAN, Veaceslav** [MD/US]; 4140 Burton Avenue, Erie, PA 16504 (US).

(74) Agents: **LARSON, Alan, P.** et al.; Baker & Hostetler LLP, 1050 Connecticut Avenue, N.W., Suite 1100, Washington, DC 20036 (US).

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(54) Title: A DESUPERHEATER SEAT-RING APPARATUS

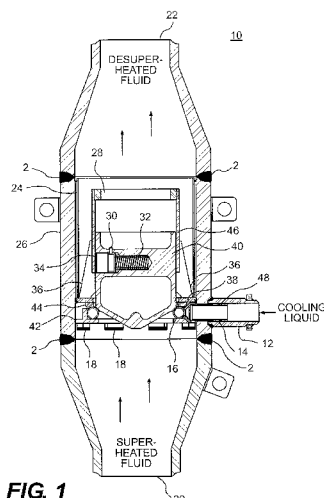


FIG. 1

(57) Abstract: The present invention relates to an apparatus and method of deploying a desuperheater with a Seat-Ring designed to provide coolant injection at high temperature differential. The present invention's robust design provides for a high level of flexibility that allows operating at high temperature differentials between the coolant and the superheated fluid. The desuperheater Seat-Ring is made as a split hollow ring with a perpendicular slit traversing the ring's circumference. The opened slit design provides a high level of flexibility, which allows the seat ring to sustain severe temperature extremes by reducing thermal stress. The coolant is supplied to the seat ring through a specially designed coolant nipple liner connected to the seat-ring.

