



US006056019A

# United States Patent [19]

[11] Patent Number: **6,056,019**

Dubois

[45] Date of Patent: **May 2, 2000**

[54] **APPARATUS FOR ACOUSTICALLY ISOLATING A HIGH PRESSURE STEAM PIPE IN A FLOODED STRUCTURE**

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[21] Appl. No.: **09/152,466**

[57] **ABSTRACT**

[22] Filed: **Sep. 8, 1998**

An acoustically isolated structure for use on a high temperature pipe in a fluid environment is disclosed. Thermal insulation is provided radially outward from and adjacent to the pipe, and a sleeve is located on the outer surface of the insulation preventing environmental fluid from damaging the thermal insulation. A spacer is joined to the sleeve to position an acoustical barrier away from the pipe. The spacer allows environmental fluid circulation between the sleeve and the acoustical barrier.

[51] Int. Cl.<sup>7</sup> ..... **F16L 9/18; F16L 59/12**

[52] U.S. Cl. .... **138/149; 138/148; 138/113; 138/114**

[58] Field of Search ..... **138/149, 148, 138/111-114, 108; 62/55; 181/207**

[56] **References Cited**

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**12 Claims, 3 Drawing Sheets**

