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# United States Patent [19]

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Dubois

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## 4] ISOLATION SYSTEM FOR A HIGH PRESSURE STEAM PIPE IN A FLOODED STRUCTURE

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2] U.S. Cl. .... **73/571; 73/865.6**

8] Field of Search ..... **73/571, 570, 865.6, 73/DIG. 1**

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### [57] ABSTRACT

An acoustic test assembly for testing an underwater vehicle includes a high pressure source joined by a high pressure pipe which extends into a fluid filled testing structure. A vibration shielding flange is joined to the testing structure wall where the flange supports the high pressure pipe. At least one acoustic barrier is positioned around the pipe inside the testing structure to isolate vibrations from the high pressure pipe. In further detail, the high pressure pipe is a pipe surrounded by thermal insulation and a sleeve preventing fluid from affecting the insulation. The acoustic barrier has a barrier joined by spacer means to the sleeve member.

**9 Claims, 4 Drawing Sheets**

