

Title (en)
COMPLIANT TUBE BAFFLE

Publication
EP 0328931 A3 19910731 (EN)

Application
EP 89101662 A 19890201

Priority
US 15700888 A 19880218

Abstract (en)
[origin: EP0328931A2] A compliant tube baffle for use in a marine environment wherein a boxlike structure (10) is surrounded by an elastomeric cover (64) and includes a pair of elastic tapered beam plates (12,14) separated by suitable means such as by bent plate springs (18,20) which may be engageable with elastic cushioning layers (54) adhered to side shields (52). Damping may be provided by piezoelectric elements (58) or by constrained layers (66) of elastomeric material stressed during flexing movement of the beam plates (12,14).

IPC 1-7
G10K 13/00

IPC 8 full level
G10K 11/16 (2006.01); **G10K 11/178** (2006.01); **G10K 11/20** (2006.01)

CPC (source: EP)
G10K 11/16 (2013.01); **G10K 11/205** (2013.01)

Citation (search report)

- [YP] EP 0291892 A2 19881123 - GOODRICH CO B F [US]
- [Y] FR 398890 A 19090616 - SIEMENS AG [DE]
- [Y] FR 2536195 A1 19840518 - SINTRA ALCATEL SA [FR]
- [A] EP 0114764 A2 19840801 - THOMSON CSF [FR]
- [A] US 4715559 A 19871229 - FULLER CHRISTOPHER R [US]
- [Y] J. ACOUST. SOC. AM., vol. 80, no. 4, October 1986, pages 1097-1102; P.S. DUBBELDAY: "Constrained-layer model investigation based on exact elasticity theory"
- [A] J. ACOUST. SOC., vol. 78, no. 3, September 1985, pages 1010-1012; M.C. JUNGER: "Water-borne sound insertion loss of a planar compliant-tube array"

Cited by
FR2730335A1; FR2732806A1; FR2740643A1; WO9716817A1

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