

Title (en)
EDGE DRIVEN FLEXURAL TRANSDUCER

Publication
EP 0434344 A3 19911113 (EN)

Application
EP 90313788 A 19901217

Priority
US 45191389 A 19891218

Abstract (en)
[origin: EP0434344A2] An electro-acoustic transducer utilizing a plurality of flexural bars or staves to form an interface member between the electrorestrictive driver element and the water transmission medium. The staves are fastened to end plates to form a concave barrel-shaped structure that results in substantial mechanical amplification. The driver element consists of a stack of electrorestrictive elements with the stack's axis essentially coincident with the transducer's longitudinal axis. A tension member, threaded at both ends, passes through holes in the end plates and through an axial hole in the stack. Nuts at each end of the tension member are tightened to provide the required compressional "bias" to the stack. The transducer offers the advantages of lower cost of fabrication, increased amplification of the flexural driver interface elements and improved capability to withstand hydrostatic pressures. <IMAGE>

IPC 1-7
G10K 9/12

IPC 8 full level
G10K 9/12 (2006.01)

CPC (source: EP)
G10K 9/121 (2013.01)

Citation (search report)
• [XP] US 4922470 A 19900501 - MCMAHON GARFIELD W [CA], et al
• [AD] US 3258738 A 19660628 - MERCHANT HOWARD C

Cited by
EP0903725A3; US6535459B1

Designated contracting state (EPC)
FR GB

DOCDB simple family (publication)
EP 0434344 A2 19910626; EP 0434344 A3 19911113; EP 0434344 B1 19950823; CA 2032044 A1 19910619

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EP 90313788 A 19901217; CA 2032044 A 19901212