

Title (en)
AN ACOUSTIC TRANSDUCER

Publication
EP 0401027 A3 19920108 (EN)

Application
EP 90305961 A 19900531

Priority
GB 8912782 A 19890602

Abstract (en)
[origin: EP0401027A2] In order to reduce side lobes in the transmission characteristics of an acoustic transducer the amplitude of transmission is tapered towards the edges of the aperture. This is done by constructing the transducer from ceramic-epoxy composite elements connected in a one-three configuration and distributed with varying volume fraction in the width and length directions.

IPC 1-7
B06B 1/06

IPC 8 full level
H04R 1/38 (2006.01); **B06B 1/06** (2006.01); **H04R 17/00** (2006.01)

CPC (source: EP)
B06B 1/0629 (2013.01)

Citation (search report)
• [X] DE 3334090 A1 19840322 - PHILIPS CORP [US]
• [Y] EP 0137529 A2 19850417 - PHILIPS NV [NL]
• [A] GB 2190818 A 19871125 - BRUEEL & KJAER AS
• [A] GB 2114857 A 19830824 - GEN ELECTRIC
• [Y] ultrasonics international 87 conf. proc., london6-9 july 1987, p. 426-431, D. J. Mehrl et al. : "Design and evaluation of apodized piezo__ electric transducers"

Cited by
WO2012131212A1; EP0707898A3; US5434827A; US5438554A; EP0689187A1; US5546946A; US5460181A; DE102006015493A1; DE102006015493B4; US5371717A; EP0629992A3; FR2973550A1; CN103650031A; US5465725A; US5423319A; ITGE20100018A1; EP2796209A3; US10189049B2; US9683971B2; US10293374B2; US9936969B2

Designated contracting state (EPC)
DE ES FR IT SE

DOCDB simple family (publication)
EP 0401027 A2 19901205; EP 0401027 A3 19920108; CA 2017382 A1 19901202; GB 2232323 A 19901205; GB 8912782 D0 19890719; GB 9012171 D0 19900718; JP H03113999 A 19910515

DOCDB simple family (application)
EP 90305961 A 19900531; CA 2017382 A 19900523; GB 8912782 A 19890602; GB 9012171 A 19900531; JP 14426390 A 19900601