

Title (en)
Ultrasonic foil transducer

Title (de)
Ultraschall-Folien-Wandler

Title (fr)
Transducteur à feuilles ultrasoniques

Publication
EP 0971557 A3 20000209 (DE)

Application
EP 99109344 A 19990531

Priority
DE 19825581 A 19980609

Abstract (en)
[origin: DE19825581A1] The transformer comprises an insulating layer (3) between two electrically conductive films (9,10) made of a conductive plastic film. An Independent claim is made for a process for manufacturing the ultrasonic film transformer in which an electrically conductive film (9) is laminated with the insulating film (3) and a second conductive film (10) is applied to the laminated foil. Preferred Features: One conductive film is non-textured and forms a vibrating membrane while the second conductive film is textured to form individual electrodes and conductive paths and is mushroom shaped in cross-section.

IPC 1-7
H04R 1/00; **H04R 17/00**

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

CPC (source: EP)
B06B 1/0688 (2013.01)

Citation (search report)

- [A] US 5550790 A 19960827 - VELAMOOD SESH [US], et al
- [A] DE 3309234 A1 19840920 - SIEMENS AG [DE]
- [A] DE 3309218 A1 19840920 - SIEMENS AG [DE]

Cited by
US6882260B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
DE 19825581 A1 19991216; DE 59906567 D1 20030918; EP 0971557 A2 20000112; EP 0971557 A3 20000209; EP 0971557 B1 20030813; ES 2205631 T3 20040501

DOCDB simple family (application)
DE 19825581 A 19980609; DE 59906567 T 19990531; EP 99109344 A 19990531; ES 99109344 T 19990531