

Title (en)
Sonic head

Title (de)
Schallkopf

Title (fr)
Tête sonore

Publication
EP 1143410 A3 20090909 (DE)

Application
EP 01108501 A 20010404

Priority
DE 10017068 A 20000406

Abstract (en)
[origin: EP1143410A2] The sound head (3) is attached to the outside wall (1) of a pipeline (2), with an open housing part containing a piezoelectric disc (5) held against a planar surface (9) of the pipeline wall via a pressure device (10). The planar surface is enclosed by a peripheral groove (21) formed in the pipeline outside wall, having a depth which is a whole multiple of the half wavelength of the sound waves provided by the sound head.

IPC 8 full level
G10K 11/00 (2006.01); **G01H 1/00** (2006.01); **G10K 9/22** (2006.01)

CPC (source: EP)
G10K 9/22 (2013.01); **G10K 11/004** (2013.01)

Citation (search report)

- [A] DE 29908500 U1 19990909 - SIEMENS AG [DE]
- [A] WO 9702720 A1 19970123 - NILSSON BO [SE]
- [A] WO 9910110 A1 19990304 - DANFOSS AS [DK], et al

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

Designated extension state (EPC)
AL LT LV MK RO SI

DOCDB simple family (publication)
EP 1143410 A2 20011010; EP 1143410 A3 20090909; DE 10017068 C1 20011115

DOCDB simple family (application)
EP 01108501 A 20010404; DE 10017068 A 20000406