

Title (en)

MUSICAL INSTRUMENTS INCORPORATING LOUDSPEAKERS

Title (de)

MUSIKINSTRUMENTE MIT LAUTSPRECHERN

Title (fr)

INSTRUMENTS DE MUSIQUE AVEC HAUT-PARLEURS

Publication

EP 0847674 B1 19990428 (EN)

Application

EP 96929405 A 19960902

Priority

- GB 9602164 W 19960902
- GB 9517918 A 19950902
- GB 9522281 A 19951031
- GB 9606836 A 19960330

Abstract (en)

[origin: WO9709857A2] An electronic musical instrument (137) having a keyboard (140), characterized by a loudspeaker (81) comprising a distributed mode acoustic radiator (2) and a transducer (9) mounted wholly and exclusively on the radiator to vibrate the radiator to cause it to resonate.

IPC 1-7

H04R 7/06; H04R 1/02; G10H 1/32

IPC 8 full level

G10H 1/32 (2006.01); **H04R 1/02** (2006.01); **H04R 7/04** (2006.01); **H04R 7/06** (2006.01)

CPC (source: EP)

H04R 1/02B (2013.01); **H04R 7/045** (2013.01)

Citation (examination)

US 4392027 A 19830705 - BOCK THOMAS-MATHIAS [DE]

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 9709857 A2 19970313; AT E179564 T1 19990515; AU 6882096 A 19970327; AU 703004 B2 19990311; BR 9610437 A 19990217; CA 2230154 A1 19970313; CZ 58198 A3 19980715; DE 69602281 D1 19990602; DE 69602281 T2 19990916; DK 0847674 T3 19991025; EA 002375 B1 20020425; EA 199800255 A1 19981029; EP 0847674 A2 19980617; EP 0847674 B1 19990428; ES 2133996 T3 19990916; HK 1008643 A1 19990514; HU P9903872 A2 20000328; IL 123481 A0 19980924; IL 123481 A 20001031; JP H11512259 A 19991019; NZ 316562 A 19980527; PL 182641 B1 20020228; PL 325245 A1 19980706; RO 119053 B1 20040227; SK 26298 A3 19980909; TR 199800359 T1 19980521

DOCDB simple family (application)

GB 9602164 W 19960902; AT 96929405 T 19960902; AU 6882096 A 19960902; BR 9610437 A 19960902; CA 2230154 A 19960902; CZ 58198 A 19960902; DE 69602281 T 19960902; DK 96929405 T 19960902; EA 199800255 A 19960902; EP 96929405 A 19960902; ES 96929405 T 19960902; HK 98109447 A 19980728; HU P9903872 A 19960902; IL 12348196 A 19960902; JP 51096597 A 19960902; NZ 31656296 A 19960902; PL 32524596 A 19960902; RO 9800639 A 19960902; SK 26298 A 19960902; TR 9800359 T 19960902