

Title (en)
TWEETER

Title (de)
HOCHTÖNER

Title (fr)
HAUT-PARLEUR D'AIGUS

Publication
EP 1694092 A4 20091223 (EN)

Application
EP 04818500 A 20041111

Priority
• JP 2004016771 W 20041111
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Abstract (en)
[origin: EP1694092A1] A high-tone loudspeaker according to the invention includes a semi-dome type metal diaphragm obtained by integrally forming a dome portion, a cone portion, and an edge portion. In this diaphragm, a ratio of a difference between a bottom inclination angle of the dome portion and a bottom inclination angle of the cone portion to a larger bottom inclination angle between the bottom inclination angle of the dome portion and the bottom inclination angle of the cone portion is set at 15% or less, and a ratio of a difference between a surface area of the dome portion and a surface area of the cone portion to a larger area between the surface area of the dome portion and the surface area of the cone portion is set at 15% or less. A voice coil fitting portion is provided on a lower side of a bottom of the dome portion.

IPC 8 full level
H04R 7/02 (2006.01); **H04R 7/12** (2006.01)

CPC (source: EP)
H04R 7/02 (2013.01); **H04R 7/12** (2013.01); **H04R 2307/027** (2013.01)

Citation (search report)
• [A] EP 1207719 A2 20020522 - MATSUSHITA ELECTRIC IND CO LTD [JP]
• [A] GB 2186761 A 19870819 - CELESTION INT LTD
• [A] JP H0346898 A 19910228 - MATSUSHITA ELECTRIC IND CO LTD
• See references of WO 2005048651A1

Cited by
EP3182725A1; US10327075B2; US11968506B1

Designated contracting state (EPC)
DE GB

DOCDB simple family (publication)
EP 1694092 A1 20060823; EP 1694092 A4 20091223; CN 1879447 A 20061213; CN 1879447 B 20101013; WO 2005048651 A1 20050526

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EP 04818500 A 20041111; CN 200480033456 A 20041111; JP 2004016771 W 20041111