Title (en)

Magnetron for microwave oven

Title (de)

Magnetron für Mikrowellenherd

Title (fr)

Magnétron pour four à micro-ondes

Publication

EP 2237304 A3 20110216 (EN)

Application

EP 10156389 A 20100312

Priority

JP 2009080797 A 20090330

Abstract (en)

[origin: EP2237304A2] Unnecessary noises generated from a magnetron for a microwave oven are suppressed. In a magnetron 10 for a microwave oven, the diameter IP1 of the through-hole 33 of the input side pole piece 31 is 8.6 to 9.1 mm and the outer diameter IP2 of the internal surface 41 of the input side pole piece 31 is 15 to 16 mm, while the diameter OP1 of the through-hole 34 of the output side pole piece 32 is 7.9 to 8.1 mm and the outer diameter OP2 of the internal surface 42 of the output side pole piece 32 is 11 to 13 mm. Additionally, the interval distance D1 between the outer annular portion 35 of the input side pole piece 31 and the outer annular portion 36 of the output side pole piece 32 is 11.5 to 13.5 mm and the interval distance D2 between the inner annular portion 39 of the input side pole piece 31 and the inner annular portion 40 of the output side pole piece 32 is 10.2 to 11.2 mm.

IPC 8 full level

H01J 23/10 (2006.01); **H01J 25/587** (2006.01)

CPC (source: EP KR)

F24C 7/00 (2013.01 - KR); **F24C 7/06** (2013.01 - KR); **F24C 7/08** (2013.01 - KR); **H01J 23/10** (2013.01 - EP); **H01J 25/587** (2013.01 - EP)

Citation (search report)

- [A] EP 1870923 A2 20071226 - TOSHIBA HOKUTO ELECT CORP [JP]
- [A] EP 2037482 A2 20090318 - TOSHIBA HOKUTO ELECT CORP [JP]
- [A] JP 2006260976 A 20060928 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

EP3029707A1; EP3041025A4; US9852872B2; EP2887378A1; US9653246B2; US9697977B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2237304 A2 20101006; **EP 2237304 A3 20110216**; **EP 2237304 B1 20121017**; CN 101853759 A 20101006; CN 101853759 B 20141105; JP 2010232114 A 20101014; JP 5415119 B2 20140212; KR 101667051 B1 20161017; KR 20100109444 A 20101008

DOCDB simple family (application)

EP 10156389 A 20100312; CN 201010157936 A 20100329; JP 2009080797 A 20090330; KR 20100027718 A 20100329