

Title (en)
INDUCTION HEATING APPARATUS

Title (de)
INDUKTIONSGEIZVORRICHTUNG

Title (fr)
APPAREIL DE CHAUFFAGE PAR INDUCTION

Publication
EP 3612004 A4 20200415 (EN)

Application
EP 17905519 A 20171026

Priority
• JP 2017080235 A 20170414
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Abstract (en)
[origin: EP3612004A1] An induction heating apparatus (100) according to the present invention includes a first heating coil (31) connected to a first arm circuit (21) and a common arm circuit (24), and a second heating coil (32) connected to a second arm circuit (27) and the common arm circuit (24). When supplying an AC current of a first frequency to the first heating coil (31), the common arm circuit (24) is switched at a predetermined frequency, and when supplying an AC current of a second frequency different from the first frequency to the second heating coil (32), the common arm circuit (24) is switched at the same frequency as the one used when supplying the AC current of the first frequency to the first heating coil (31). AC currents of different frequencies can be supplied to the first heating coil (31) and the second heating coil (32).

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H05B 6/12 (2006.01)

CPC (source: EP)
H05B 6/065 (2013.01); **H05B 6/1272** (2013.01); **H05B 2213/05** (2013.01)

Citation (search report)
• [AD] JP 2009158225 A 20090716 - MITSUBISHI ELECTRIC CORP
• [A] EP 0986287 A2 20000315 - BALAY SA [ES]
• [A] EP 2306784 A1 20110406 - WHIRLPOOL CO [US], et al
• See references of WO 2018189940A1

Cited by
EP4044768A1

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AL 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 RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

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EP 3612004 A1 20200219; EP 3612004 A4 20200415; EP 3612004 B1 20210915; CN 110476479 A 20191119; CN 110476479 B 20211109; ES 2893875 T3 20220210; JP 6775673 B2 20201028; JP WO2018189940 A1 20191121; WO 2018189940 A1 20181018

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EP 17905519 A 20171026; CN 201780089198 A 20171026; ES 17905519 T 20171026; JP 2017038646 W 20171026; JP 2019512344 A 20171026