

Title (en)

CW MASER HAVING AN ELECTROMAGNETIC RESONANT CIRCUIT

Title (de)

CW-MASER MIT ELEKTROMAGNETISCHEM SCHWINGKREIS

Title (fr)

MASER À ONDE ENTRETENUE (CW) POURVU D'UN CIRCUIT OSCILLANT ÉLECTROMAGNÉTIQUE

Publication

EP 3398234 A1 20181107 (DE)

Application

EP 16828726 A 20161221

Priority

- DE 102015226822 A 20151230
- DE 102016204733 A 20160322
- EP 2016082050 W 20161221

Abstract (en)

[origin: WO2017114703A1] The invention relates to a maser having an electromagnetic resonant circuit, comprising a pick-up coil (1), a capacitance (2) and a filter coil (3), an active medium (5) made of organic or maser-capable molecules in the pick-up coil as well as a population inversion device (7) for generating a population inversion in the active medium.

IPC 8 full level

H01S 1/04 (2006.01)

CPC (source: EP US)

G01R 33/60 (2013.01 - US); **H01S 1/02** (2013.01 - US); **H01S 1/04** (2013.01 - EP US); **H01S 4/00** (2013.01 - US)

Citation (search report)

See references of WO 2017114703A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 2017114703 A1 20170706; CN 108475894 A 20180831; CN 108475894 B 20200214; DE 102016204733 A1 20170706; DE 102016204733 B4 20190509; EP 3398234 A1 20181107; JP 2019508877 A 20190328; JP 6876706 B2 20210526; US 10707637 B2 20200707; US 2019013635 A1 20190110

DOCDB simple family (application)

EP 2016082050 W 20161221; CN 201680076474 A 20161221; DE 102016204733 A 20160322; EP 16828726 A 20161221; JP 2018533753 A 20161221; US 201616066440 A 20161221