

Title (en)
BURNER FOR A MOTOR VEHICLE

Title (de)
BRENNER FÜR EIN KRAFTFAHRZEUG

Title (fr)
BRÛLEUR POUR VÉHICULE MOTORISÉ

Publication
EP 4314505 A1 20240207 (DE)

Application
EP 22717563 A 20220322

Priority
• DE 102021001584 A 20210325
• EP 2022057445 W 20220322

Abstract (en)
[origin: WO2022200322A1] The invention relates to a burner (42) for an exhaust tract (26) through which exhaust gas from an internal combustion engine (12) of a motor vehicle can flow, comprising a combustion chamber (58), in which an air- and liquid-fuel-containing mixture is to be ignited and thus combusted, and an inner swirl chamber (62), through which a first portion of the air can flow, said swirl chamber having a first swirl generating device (115) which is used to produce a turbulent flow of the first portion of the air and a first outlet opening (64) through which the first portion of the air flowing through the inner swirl chamber (62) can flow and via which the first portion of the air can be discharged from the inner swirl chamber (62).

IPC 8 full level
F01N 3/025 (2006.01); **F01N 3/20** (2006.01)

CPC (source: EP KR US)
F01N 3/025 (2013.01 - EP KR); **F01N 3/2033** (2013.01 - EP KR US); **F01N 3/204** (2013.01 - US); **H01T 13/16** (2013.01 - US); **F01N 2240/14** (2013.01 - EP KR); **F01N 2470/24** (2013.01 - EP KR); **F01N 2610/1453** (2013.01 - EP KR)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
DE 102021001584 A1 20220929; **DE 102021001584 B4 20240307**; CN 117062971 A 20231114; EP 4314505 A1 20240207; JP 2024511151 A 20240312; KR 20230145603 A 20231017; US 2024175386 A1 20240530; WO 2022200322 A1 20220929

DOCDB simple family (application)
DE 102021001584 A 20210325; CN 202280024635 A 20220322; EP 2022057445 W 20220322; EP 22717563 A 20220322; JP 2023558677 A 20220322; KR 20237032103 A 20220322; US 202218551798 A 20220322