

Title (en)

INTERNAL COMBUSTION ENGINE WITH SPARK PLUG AND PRECHAMBER SPARK PLUG

Title (de)

VERBRENNUNGSKRAFTMASCHINE MIT ZÜNDKERZE UND VORKAMMERZÜNDKERZE

Title (fr)

MOTEUR À COMBUSTION INTERNE AVEC BOUGIE D'ALLUMAGE ET BOUGIE D'ALLUMAGE DE PRÉCHAMBRE

Publication

EP 4298326 A1 20240103 (DE)

Application

EP 22709619 A 20220209

Priority

- DE 102021104628 A 20210226
- EP 2022053098 W 20220209

Abstract (en)

[origin: WO2022179849A1] The present invention relates to an internal combustion engine (1), comprising: at least one cylinder (10); two charge-exchange ports (4) per cylinder (10), a first charge-exchange port (4) being an inlet port (41), and a second charge-exchange port (4) being an outlet port (42); and one spark plug (2) and one prechamber spark plug (3) per each cylinder (10).

IPC 8 full level

F02B 19/12 (2006.01); **F02B 5/00** (2006.01); **F02B 5/02** (2006.01); **F02B 23/10** (2006.01); **H01T 13/54** (2006.01)

CPC (source: EP US)

F02B 1/04 (2013.01 - US); **F02B 5/00** (2013.01 - EP); **F02B 17/005** (2013.01 - US); **F02B 19/12** (2013.01 - EP US); **F02B 23/101** (2013.01 - EP); **F02B 2023/085** (2013.01 - EP); **F02B 2023/102** (2013.01 - EP); **Y02T 10/12** (2013.01 - EP)

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 102021104628 A1 20220901; BR 112023016974 A2 20231010; CN 116940751 A 20231024; EP 4298326 A1 20240103; US 12085009 B2 20240910; US 2024133337 A1 20240425; US 2024229705 A9 20240711; WO 2022179849 A1 20220901

DOCDB simple family (application)

DE 102021104628 A 20210226; BR 112023016974 A 20220209; CN 202280017224 A 20220209; EP 2022053098 W 20220209; EP 22709619 A 20220209; US 202218546533 A 20220209