

Title (en)  
COMBUSTION SYSTEM FOR VEHICLE AND VEHICLE

Title (de)  
VERBRENNUNGSSYSTEM FÜR EIN FAHRZEUG UND FAHRZEUG

Title (fr)  
SYSTÈME DE COMBUSTION POUR VÉHICULE ET VÉHICULE

Publication  
**EP 4293209 A4 20240424 (EN)**

Application  
**EP 21941040 A 20210508**

Priority  
CN 2021092307 W 20210508

Abstract (en)  
[origin: WO2022236457A1] A combustion system (100) and a vehicle. The combustion system (100) may comprise an air intake passage (10), an air exhaust passage (20), an air intake valve (30), and an air exhaust valve (40). The included angle between an axis of the air intake valve (30) and an axis of the air exhaust valve (40) is a preset angle. Furthermore, when the air intake valve (30) shuts down the air intake passage (10) and the air exhaust valve (40) shuts down the air exhaust passage (20), the center position of the air intake valve (30) is higher than the center position of the air exhaust valve (40). The combustion system (100) fixes the included angle between the axis of the air intake valve (30) and the axis of the air exhaust valve (40). Furthermore, the height of the center position of the air intake valve (30) is designed to be higher than the height of the center position of the air exhaust valve (40). Therefore, airflow at the upper part of the air intake valve (30) flows along the inner wall of a combustion chamber (50) and a wall surface of the air exhaust valve (40) to enter the combustion chamber (50). A flow rate dead zone near the air exhaust valve (40) is reduced, thereby achieving high tumble flow conditions of gas in the combustion chamber (50). The combustion speed of the gas in the combustion system (100) of an engine is increased, the engine efficiency is increased, and requirements for engine power are met.

IPC 8 full level  
**F02B 23/10** (2006.01); **F01L 3/06** (2006.01); **F01L 3/20** (2006.01); **F02F 1/24** (2006.01); **F02F 3/26** (2006.01); **F02M 35/10** (2006.01)

CPC (source: EP KR)  
**F01L 3/06** (2013.01 - EP); **F01L 3/20** (2013.01 - EP); **F02B 23/10** (2013.01 - EP KR); **F02B 23/101** (2013.01 - EP); **F02F 1/24** (2013.01 - EP KR); **F02F 3/26** (2013.01 - KR); **F02M 35/10262** (2013.01 - KR); **F01L 2003/255** (2013.01 - EP); **F01L 2820/01** (2013.01 - EP); **F02F 2001/245** (2013.01 - EP)

Citation (search report)  
• [X] EP 0492055 A1 19920701 - TOYOTA MOTOR CO LTD [JP]  
• [X] US 5806482 A 19980915 - IGARASHI KYOYA [JP], et al  
• [XY] CN 108869006 A 20181123 - CHERY AUTOMOBILE CO LTD  
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• [X] JP H0526047 A 19930202 - TOYOTA MOTOR CORP  
• See also references of WO 2022236457A1

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)  
**EP 4293209 A1 20231220**; **EP 4293209 A4 20240424**; CN 116964305 A 20231027; JP 2024511210 A 20240312; KR 20230158582 A 20231120; WO 2022236457 A1 20221117

DOCDB simple family (application)  
**EP 21941040 A 20210508**; CN 2021092307 W 20210508; CN 202180095050 A 20210508; JP 2023559699 A 20210508; KR 20237035759 A 20210508