

Title (en)

SADDLE-TYPE VEHICLE HAVING INDEPENDENT THROTTLE-TYPE ENGINE MOUNTED THEREON

Title (de)

SATTELFahrzeug MIT DARAUf ANGEBRACHTeM UNABHÄNGIGeM DROSSELKLAPPeNMOTOR

Title (fr)

VÉHICULE DU TYPE À SELLE DOTÉ DE MOTEUR À PAPILLON INDÉPENDANT MONTÉ SUR LE VÉHICULE

Publication

EP 3640464 A4 20200812 (EN)

Application

EP 18835837 A 20180601

Priority

- JP 2017138889 A 20170718
- JP 2018021152 W 20180601

Abstract (en)

[origin: EP3640464A1] The present teaching aims to provide a straddled vehicle equipped with an independent throttle engine capable of achieving both a degree of design freedom for catalyst layout and an early activation of a catalyst. The present teaching provides a straddled vehicle equipped with an independent throttle engine, the vehicle including an independent throttle engine, an exhaust passage, a silencer, a catalyst, a magnet type motor, an electricity storage device, a driven member, and a control section. The control section operates the magnet type motor and the independent throttle engine such that, at a time of a cold start, firstly, the magnet type motor uses electricity in the electricity storage device to cause forward rotation of the crankshaft with a combustion action of the independent throttle engine stopped, until a rotation speed of the crankshaft exceeds an idling rotation speed of the independent throttle engine, and then in a state where the rotation speed of the crankshaft exceeds the idling rotation speed of the independent throttle engine, the independent throttle engine supplies air through each throttle valve as well as a fuel to each cylinder and starts the combustion action.

IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] EP 1855105 A1 20071114 - YAMAHA MOTOR CO LTD [JP]
- [Y] US 2004128981 A1 20040708 - MOORE JEREMY [US], et al
- [A] US 2003150430 A1 20030814 - BAYERLE KLAUS [DE], et al
- [A] WO 2017081664 A2 20170518 - BOMBARDIER RECREATIONAL PRODUCTS INC [CA], et al
- See references of WO 2019017090A1

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)

EP 3640464 A1 20200422; **EP 3640464 A4 20200812**; **EP 3640464 B1 20220921**; JP 2020153233 A 20200924; TW 201908187 A 20190301; TW I679142 B 20191211; WO 2019017090 A1 20190124

DOCDB simple family (application)

EP 18835837 A 20180601; JP 2017138889 A 20170718; JP 2018021152 W 20180601; TW 107123100 A 20180704