

Title (en)

Throttle apparatus and motorcycle having the same

Title (de)

Drosselklappenvorrichtung und Motorrad mit dieser Vorrichtung

Title (fr)

Appareil de régulateur et motocyclette l'utilisant

Publication

EP 2143914 A1 20100113 (EN)

Application

EP 09008872 A 20090707

Priority

JP 2008178993 A 20080709

Abstract (en)

A throttle apparatus (60) includes: a throttle valve (66) disposed in an intake air passage (61) of an engine (3), a throttle shaft (65) connected to the throttle valve (66) and rotatable in a predetermined operational angle range, a motor (71) for rotating the throttle shaft (65), and a reduction mechanism (72) for transmitting, to the throttle shaft (65), the rotation of the motor (71) as reduced in rotational speed. The reduction mechanism (72) has a plurality of gears (76,77,78) including a first gear (77) rotatable in a rotational angle range greater than the operational angle range of the throttle shaft (65) and smaller than 360 degrees. The throttle apparatus (60) further includes a rotational angle sensor (82, 91, 92) for detecting the rotational angle of the first gear (77).

IPC 8 full level

F02D 11/10 (2006.01); **F02D 9/02** (2006.01); **F02D 9/10** (2006.01)

CPC (source: EP)

F02D 9/105 (2013.01); **F02D 9/1065** (2013.01); **F02D 11/106** (2013.01); **F02D 2009/0269** (2013.01); **F02D 2009/0284** (2013.01); **F02D 2009/0294** (2013.01); **F02D 2250/16** (2013.01)

Citation (applicant)

JP 2002256903 A 20020911 - YAMAHA MOTOR CO LTD

Citation (search report)

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- [A] DE 19912231 A1 19991014 - AISAN IND [JP]
- [A] US 6189507 B1 20010220 - TSUCHIYA HIDEKI [JP], et al
- [PA] EP 2058489 A2 20090513 - KEIHIN CORP [JP]
- [A] EP 0572951 A2 19931208 - NIPPON DENSO CO [JP]
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DOCDB simple family (application)

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