

Title (en)  
Starter with increased mounting capability

Title (de)  
Starter mit verbesserter Montagefähigkeit

Title (fr)  
Démarreur avec capacité d'assemblage améliorée

Publication  
**EP 2080897 A2 20090722 (EN)**

Application  
**EP 08021478 A 20081210**

Priority  
• JP 2008009029 A 20080118  
• JP 2008028773 A 20080208

Abstract (en)  
A starter having a motor circuit having a resistor element limiting electric current flowing through a motor at an early stage of energizing the motor, and an auxiliary contact connected to the resistor element in parallel thereto. An auxiliary electromagnetic switch, operative to open or close the auxiliary contact, is fixedly mounted on at least one of a housing or an end frame of the motor via a mounting member in an area close proximity to the outer circumferential periphery of the motor. A main electromagnetic switch is fixedly mounted on the housing by means of a plurality of bolts in the area close proximity to an outer circumferential periphery of the motor.

IPC 8 full level  
**F02N 15/06** (2006.01); **H01H 50/04** (2006.01); **H01H 51/06** (2006.01); **F02N 11/08** (2006.01)

CPC (source: EP)  
**F02N 11/10** (2013.01); **F02N 15/067** (2013.01); **F02D 2041/2079** (2013.01); **F02N 11/0859** (2013.01); **F02N 11/087** (2013.01); **F02N 15/00** (2013.01); **F02N 15/022** (2013.01); **F02N 2250/02** (2013.01); **H01H 51/065** (2013.01)

Citation (applicant)  
JP H1018949 A 19980120 - MITSUBISHI ELECTRIC CORP

Cited by  
US9121382B2; WO2013132173A1; US2015028600A1; CN105164402A; CN104847559A; DE102011076913A1; DE102010064276A1; FR2987932A1; EP2385539A1; CN102235285A; FR2951786A1; FR2951863A1; CN102052223A; CN102640251A; EP2472546A4; FR2968043A1; CN102562404A; EP3282465A4; US2011198862A1; CN102162420A; CN103437932A; DE102011000619B4; WO2012076777A1; WO2013014356A2; WO2011039278A1; WO2014093254A3; WO2015001246A2; US9267478B2; US10132285B2; WO2013014352A1; EP2579282A1; US8994299B2; US9297347B2; EP2578869A1; US9562508B2; US9657704B2

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DE FR

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AL BA MK RS

DOCDB simple family (publication)  
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