

Title (en)
Electrical hand tool

Title (de)
Elektrisches Handwerkzeug

Title (fr)
Outil à main électrique

Publication
EP 1459853 B1 20080528 (FR)

Application
EP 04290755 A 20040319

Priority
FR 0303371 A 20030319

Abstract (en)
[origin: EP1459853A1] The tool has electric components e.g. motor, and a housing that receives a battery (3), which powers the motor. The battery is detachably fixed in the housing by stop pins (10, 24) in a mechanical bolting position for electrical connection with the motor and in a mechanical retaining position that electrically isolates the battery. The pins are arranged for retaining the battery in isolated position by friction.

IPC 8 full level
B25F 5/02 (2006.01)

CPC (source: EP US)
B25F 5/02 (2013.01 - EP US)

Cited by
EP2402123A3; WO2010043244A1; WO2007014840A3

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
EP 1459853 A1 20040922; EP 1459853 B1 20080528; AT E396839 T1 20080615; AU 2004200974 A1 20041007; AU 2004200974 B2 20061207; DE 602004014053 D1 20080710; DK 1459853 T3 20080901; ES 2306967 T3 20081116; FR 2852545 A1 20040924; FR 2852545 B1 20050506; NZ 531698 A 20060127; PT 1459853 E 20080811; US 2004258983 A1 20041223; US 7638233 B2 20091229

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EP 04290755 A 20040319; AT 04290755 T 20040319; AU 2004200974 A 20040309; DE 602004014053 T 20040319; DK 04290755 T 20040319; ES 04290755 T 20040319; FR 0303371 A 20030319; NZ 53169804 A 20040311; PT 04290755 T 20040319; US 80315904 A 20040318