

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)  
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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