

Title (en)  
Electric hand tool with idle running switch off

Title (de)  
Elektrohandwerkzeuggerät mit Leerschlagabschaltung

Title (fr)  
Outil électrique à main avec coupure de la percussion

Publication  
**EP 1226903 A3 20090520 (DE)**

Application  
**EP 02405018 A 20020114**

Priority  
DE 10103141 A 20010124

Abstract (en)  
[origin: DE10103141A1] In the event of no strike there is a shunting piston (4) and a riveting header (5) that uses an air channel (9) controlled by valve openings (8) and extended on-axis outside an inner sleeve for a guide tube (2) in order to ventilate a pneumatic spring (1) into the surroundings. The air channel stretches from the axial area of the pneumatic spring to the axial area of the riveting header. The valve openings can be sealed off in order to vent the pneumatic spring through the riveting header when fitted in an operating position.

IPC 8 full level  
**B25D 9/26** (2006.01); **B25D 11/12** (2006.01); **B25D 16/00** (2006.01); **B25D 17/10** (2006.01)

CPC (source: EP US)  
**B25D 11/005** (2013.01 - EP US); **B25D 11/125** (2013.01 - EP US); **B25D 17/06** (2013.01 - EP US); **B25D 2250/035** (2013.01 - EP US)

Citation (search report)

- [X] DE 19621057 A1 19961219 - MAKITA CORP [JP]
- [DA] EP 0759341 A2 19970226 - MAKITA CORP [JP]
- [DA] DE 4111127 A1 19911010 - MAKITA CORP [JP]

Cited by  
CN101947797A; GB2421465A; EP2857150A1; WO2015049133A1; US10814467B2; US11878401B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Designated extension state (EPC)  
AL LT LV MK RO SI

DOCDB simple family (publication)  
**EP 1226903 A2 20020731**; **EP 1226903 A3 20090520**; **EP 1226903 B1 20130703**; CN 1289266 C 20061213; CN 1367067 A 20020904; DE 10103141 A1 20020725; JP 2002254350 A 20020910; JP 4166017 B2 20081015; US 2002108766 A1 20020815; US 6467555 B2 20021022; ZA 200200623 B 20020801

DOCDB simple family (application)  
**EP 02405018 A 20020114**; CN 02102015 A 20020115; DE 10103141 A 20010124; JP 2002013591 A 20020123; US 5566002 A 20020123; ZA 200200623 A 20020123