

Title (en)  
FRICTION STIR TOOL FOR FRICTION WELDING

Title (de)  
REIBRÜHRWERKZEUG ZUM REIBSCHWEISSEN

Title (fr)  
OUTIL DE MELANGE PAR FRICTION DESTINE AU SOUDAGE PAR FRICTION

Publication  
**EP 1423228 A1 20040602 (DE)**

Application  
**EP 02767069 A 20020802**

Priority  
• DE 0202858 W 20020802  
• DE 10139687 A 20010811

Abstract (en)  
[origin: DE10139687C1] The sensor (7) is integrated into a telemetric measuring system (10) on the tool. Tool control uses temperature values from the welding zone acquired by a sensor arranged with a measuring site in the pin (4) of tool. Preferred Features: The system continuously sends the measured temperature values to a control and regulating unit of the tool arranged outside of the tool. The sensor is a thermocouple or a pyrometer with a sapphire rod in the pin or an optical fiber in the pin.

IPC 1-7  
**B23K 20/12**

IPC 8 full level  
**B23K 20/12** (2006.01)

CPC (source: EP US)  
**B23K 20/1235** (2013.01 - EP US); **B23K 20/1255** (2013.01 - EP US); **B23K 2101/32** (2018.07 - EP US)

Citation (search report)  
See references of WO 03015975A1

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DOCDB simple family (publication)  
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