

Title (en)  
COUPLING BETWEEN A MEDICAL HANDPIECE PART AND A SUPPLY TUBE

Title (de)  
KUPPLUNG ZWISCHEN EINEM ÄRZTLICHEN HANDSTÜCKTEIL UND EINEM VERSORGUNGSSCHLAUCH

Title (fr)  
COUPLAGE ENTRE UNE PARTIE DE PIÈCE À MAIN MÉDICALE ET UN TUBE D'ALIMENTATION

Publication  
**EP 2083739 A1 20090805 (DE)**

Application  
**EP 07819494 A 20071031**

Priority  
• EP 2007009462 W 20071031  
• DE 102006051511 A 20061031

Abstract (en)  
[origin: WO2008052768A1] The present invention relates to a coupling for producing a detachable connection between a medical, in particular dental, handpiece part and a supply tube and for transmitting current and, if appropriate, other supply media from the supply tube to the handpiece part. The coupling comprises two coupling elements (3, 4), wherein one of the two coupling elements (3) can be arranged on the supply tube and the other (4) can be arranged on the handpiece part. Arranged on one of the two coupling elements (3), there is a guide element (5) that can be inserted into an insert opening (6) formed on the other coupling element (4). In a defined relative position of rotation of the two coupling elements (3, 4), a slide element (7) with current contacts engages in a corresponding recess of the second coupling element (4), wherein the two coupling elements (3, 4) can be rotated relative to each other about a rotation axis (D) when the guide element (5) has been inserted or at least partially inserted and before the predefined coupling position is reached. A reliable quick-coupling is thus formed that permits particularly easy handling.

IPC 8 full level  
**A61B 6/51** (2024.01); **A61C 1/08** (2006.01); **A61C 1/18** (2006.01); **A61C 3/04** (2006.01)

CPC (source: EP US)  
**A61C 1/088** (2013.01 - EP US); **A61C 1/18** (2013.01 - EP US); **A61C 3/04** (2013.01 - EP US)

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

DOCDB simple family (publication)  
**DE 102006051511 A1 20080508**; EP 2083739 A1 20090805; JP 2010508050 A 20100318; US 2010221676 A1 20100902;  
US 7914315 B2 20110329; WO 2008052768 A1 20080508

DOCDB simple family (application)  
**DE 102006051511 A 20061031**; EP 07819494 A 20071031; EP 2007009462 W 20071031; JP 2009533754 A 20071031;  
US 16024407 A 20071031