

Title (en)
SURGICAL TOOL, ESPECIALLY FOR MACHINING BONES FOR INSERTION OF A DENTAL IMPLANT

Title (de)
CHIRURGISCHES WERKZEUG, INSBESONDERE ZUM BEARBEITEN VON KNOCHEN FÜR DAS EINSETZEN EINES ZAHNIMPLANTATS

Title (fr)
OUTIL CHIRURGICAL DESTINÉ NOTAMMENT À L'USINAGE D'OS POUR LA POSE D'UN IMPLANT DENTAIRE

Publication
EP 2331007 A1 20110615 (DE)

Application
EP 08758431 A 20080509

Priority
EP 2008003737 W 20080509

Abstract (en)
[origin: WO2009135514A1] The invention relates to a surgical tool (1) for preparing bones, especially for machining bones for insertion of a dental implant, for example a drilling device comprising a tool shank (2) having a channel (3) for guiding a cooling or drilling liquid therethrough, a rotatable machining part (4) and a guide element (5) which is arranged on the proximal end of the machining part (4), which can be axially moved relative to the machining part (4) and which is adapted to be introduced into a pilot bore and has drilling grooves (6) for guiding the cooling or drilling liquid. In order to be able to machine bone material by means of the tool (1) without the tool (1) suddenly deviating from the pilot bore or from penetrating the drill channel, while at the same time allowing an improved cooling effect and improved removal of bone chips, tissue fragments and blood, the outlet where the cooling or drilling liquid (3) exits the channel (3) towards the drilling grooves (6) is arranged in the region of the transition between the proximal end of the machining part (4) and the distal end of the guide element (5).

IPC 8 full level
A61C 8/00 (2006.01); **A61C 1/08** (2006.01); **A61C 17/16** (2006.01)

CPC (source: EP US)
A61B 17/1617 (2013.01 - EP US); **A61B 17/1644** (2013.01 - EP US); **A61C 8/0089** (2013.01 - EP US); **A61B 90/03** (2016.02 - EP US); **A61B 2017/1651** (2013.01 - EP US); **A61B 2217/007** (2013.01 - EP US); **A61C 1/055** (2013.01 - EP US); **A61C 1/082** (2013.01 - EP US)

Citation (search report)
See references of WO 2009135514A1

Citation (examination)
EP 0240457 A1 19871007 - MECRON MED PROD GMBH [DE]

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009135514 A1 20091112; EP 2331007 A1 20110615; US 2011208192 A1 20110825

DOCDB simple family (application)
EP 2008003737 W 20080509; EP 08758431 A 20080509; US 99152208 A 20080509