

Title (en)

METHOD AND INSTRUMENTS FOR REPAIRING ENDOCHONDRAL AND OSTEOCHONDRAL DEFECTS

Title (de)

VERFAHREN UND INSTRUMENTE FÜR DIE REPARATUR VON ENDOCHONDRALEN UND OSTEOCHONDRALEN DEFECTEN

Title (fr)

PROCEDE ET INSTRUMENTS DE REPARATION DE DEFAUTS CARTILAGINEUX ET OSTEO-CARTILAGINEUX

Publication

**EP 1027001 A1 20000816 (DE)**

Application

**EP 98944954 A 19981007**

Priority

- CH 9800430 W 19981007
- CH 248597 A 19971027
- CH 177998 A 19980902

Abstract (en)

[origin: WO9921497A1] Endochondral or osteochondral defects, especially joint cartilage defects are repaired by making cylindrical holes (21) in the area of the defect and implanting columns of tissue (2) with a vital cartilage layer (2') on one front surface, said columns of tissue (2) being taken for example from a less strained joint site. The chances of success of this type of reparation are improved by increased precision. To this end, a guiding instrument for precisely guiding cutting or boring instruments is used for making the holes (21). Said guiding instrument can be positioned and fixed in the area of the defect. Consequently it is possible to achieve a high degree of precision in terms of the parallelity and the position of the holes (21). It is also possible to reconstruct an original cartilage surface very accurately by determining an original cartilage surface and then matching the axial length and the angle between the cartilage surface and the column axis of the column of tissue (2) to be implanted to this original surface. Gaps between the implanted tissue columns (2) and on the edges of the defect in the reconstructed cartilage surface are also filled using another implant from a layer of cartilage (50) grown in vitro.

IPC 1-7

**A61B 17/56; A61F 2/46**

IPC 8 full level

**A61B 17/22** (2006.01); **A61B 17/16** (2006.01); **A61B 17/17** (2006.01); **A61B 17/32** (2006.01); **A61B 17/56** (2006.01); **A61F 2/28** (2006.01); **A61F 2/30** (2006.01); **A61F 2/46** (2006.01); **A61B 10/00** (2006.01); **A61B 10/02** (2006.01); **A61B 19/00** (2006.01); **A61F 2/00** (2006.01)

CPC (source: EP)

**A61B 17/1604** (2013.01); **A61B 17/17** (2013.01); **A61B 90/92** (2016.02); **A61F 2/30756** (2013.01); **A61F 2/4618** (2013.01); **A61F 2/4657** (2013.01); **A61B 10/025** (2013.01); **A61B 2090/062** (2016.02); **A61F 2/3094** (2013.01); **A61F 2002/30224** (2013.01); **A61F 2002/30759** (2013.01); **A61F 2002/30764** (2013.01); **A61F 2002/4661** (2013.01); **A61F 2002/4662** (2013.01); **A61F 2230/0069** (2013.01)

Citation (search report)

See references of WO 9921497A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**WO 9921497 A1 19990506**; EP 1027001 A1 20000816; JP 2001520911 A 20011106

DOCDB simple family (application)

**CH 9800430 W 19981007**; EP 98944954 A 19981007; JP 2000517664 A 19981007