

Title (en)
ARTIFICIAL INTERVERTEBRAL DISK

Title (de)
KÜNSTLICHE ZWISCHENWIRBELSCHEIBE

Title (fr)
DISQUE INTERVERTEBRAL ARTIFICIEL

Publication
EP 1732478 A1 20061220 (DE)

Application
EP 05728248 A 20050303

Priority
• DE 2005000373 W 20050303
• DE 102004016032 A 20040330

Abstract (en)
[origin: WO2005094734A1] The invention relates to an artificial intervertebral disk (1) which can be inserted between two adjacent vertebral bodies of a patient and by means of which two adjacent vertebral bodies of a patient are joined in an articulated manner. Said artificial intervertebral disk (1) comprises an intermediate element (2) that is embodied as an elastic ring and is inserted into one respective molded portion (3) of two outer elements (4) which are configured as metal plates. The outer elements (4) are joined to the bones of the vertebral bodies via anchoring pins (5), especially titanium anchorings previously known in hip endoprosthetics. The radius (D) of the concave molded portion (3) is greater than the diameter (d) of a circular cross-sectional area of the intermediate element (2) such that compression of the intermediate element (2) caused particularly by the patient's movement allows for a defined deformation.

IPC 8 full level
A61F 2/44 (2006.01); **A61F 2/00** (2006.01); **A61F 2/30** (2006.01)

CPC (source: EP US)
A61F 2/4425 (2013.01 - EP US); **A61F 2002/30133** (2013.01 - EP US); **A61F 2002/302** (2013.01 - EP US); **A61F 2002/30563** (2013.01 - EP US); **A61F 2002/30593** (2013.01 - EP US); **A61F 2002/30841** (2013.01 - EP US); **A61F 2002/443** (2013.01 - EP US); **A61F 2230/0015** (2013.01 - EP US); **A61F 2230/0065** (2013.01 - EP US); **A61F 2310/00023** (2013.01 - EP US); **A61F 2310/00407** (2013.01 - EP US)

Citation (search report)
See references of WO 2005094734A1

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 MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2005094734 A1 20051013; AU 2005229466 A1 20051013; AU 2005229466 B2 20080501; DE 102004016032 A1 20051117; DE 102004016032 B4 20060713; EP 1732478 A1 20061220; JP 2007530183 A 20071101; JP 4646974 B2 20110309; US 2007185579 A1 20070809; US 7785369 B2 20100831

DOCDB simple family (application)
DE 2005000373 W 20050303; AU 2005229466 A 20050303; DE 102004016032 A 20040330; EP 05728248 A 20050303; JP 2007505362 A 20050303; US 59952405 A 20050303