Title (en)

METHOD OF PRODUCING A SINGLE-EYED SUTURE NEEDLE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER EINÖHRIGEN CHIRURGISCHEN NADEL

Title (fr)

PROCEDE DE FABRICATION D UNE AIGUILLE A SUTURER A CHAS UNIQU E

Publication

EP 1460944 A1 20040929 (FR)

Application

EP 03709858 A 20030107

Priority

- FR 0300023 W 20030107
- FR 0200142 A 20020107

Abstract (en)

[origin: WO03057047A1] The invention relates to a method of producing a surgical needle (1), having diameter D1, which is intended to support a suture thread (2), having diameter D3, by means of crimping. According to the invention, the method consists in performing a heat treatment on the eye area (1C) of a surgical needle (1) which is made entirely from austenitic-type steel. Said heat treatment is designed to (i) enable the mechanical drilling of the single axial hole (3) having a diameter (D2) that is determined according to the diameter (D1) of the needle (1) and the diameter (D3) of the largest-diametered suture thread (2) from the full range of suture threads that are intended to be used with a needle of a given diameter (D1); and (ii) obtain a ductility which, by means of crushing during crimping, can be used to diminish the initial diameter (D2) of the axial hole (3) by at least 50 %.

IPC 1-7

A61B 17/06

IPC 8 full level

A61B 17/06 (2006.01)

CPC (source: EP)

A61B 17/06004 (2013.01); A61B 17/06166 (2013.01); A61B 2017/06028 (2013.01); A61B 2017/061 (2013.01)

Citation (search report)

See references of WO 03057047A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

WO 03057047 A1 20030717; AU 2003214293 A1 20030724; EP 1460944 A1 20040929; FR 2834441 A1 20030711; FR 2834441 B1 20041022

DOCDB simple family (application)

FR 0300023 W 20030107; AU 2003214293 A 20030107; EP 03709858 A 20030107; FR 0200142 A 20020107