

Title (en)

COLLAGEN LIGAMENT AND TENDON REGENERATION MATERIAL.

Title (de)

MATERIAL ZUR REGENERIERUNG VON KOLLAGENLIGAMENTEN UND -TENDONEN.

Title (fr)

MATERIAU DE REGENERATION DU COLLAGENE DES LIGAMENTS ET DES TENDONS.

Publication

**EP 0152431 A4 19861127 (EN)**

Application

**EP 84903019 A 19840724**

Priority

US 51702083 A 19830725

Abstract (en)

[origin: WO8500511A1] A skin collagen or a structural collagen (11) is treated with glutaraldehyde to achieve cross linking (30) of the protein strands which constitute the collagen. The collagen is provided in the form of a suitable weave with sufficient space between its strands or fibers to function as a "scaffold" through which ligament fibroblasts can propagate. A sheet (16) of the collagen is rolled into a coil-shaped configuration which is positioned between ends of a torn anterior cruciate ligament. The ends (20) of the collagen coil are sutured to the torn ends of the ligament. The joint is immobilized, during which time the synovial sheath regrows and protects the ligament from synovial fluid. The fibroblasts grow through the collagen, completely healing in as little as three weeks. In one embodiment of the invention, one end of the collagen is inserted in a carved out portion of the bone and is peripherally stitched to its periosteum. The regenerating ligament forms a normal attachment to the bone.

IPC 1-7

; **A61F 5/04**

IPC 8 full level

**A61F 2/08** (2006.01); **A61L 27/36** (2006.01)

CPC (source: EP)

**A61F 2/08** (2013.01); **A61L 27/24** (2013.01); **A61L 27/36** (2013.01); **A61L 27/3662** (2013.01); **A61L 27/3687** (2013.01); **A61L 2430/10** (2013.01)

Citation (search report)

- [X] WO 8204390 A1 19821223 - KURLAND KENNETH Z
- See references of WO 8500511A1

Designated contracting state (EPC)

AT DE FR GB SE

DOCDB simple family (publication)

**WO 8500511 A1 19850214**; EP 0152431 A1 19850828; EP 0152431 A4 19861127

DOCDB simple family (application)

**US 8401186 W 19840724**; EP 84903019 A 19840724