

Title (en)

SWING PHASE CONTROL UNIT FOR AN ARTIFICIAL KNEE JOINT

Title (de)

SCHWUNGPHASENSTEUERUNG FÜR EIN KÜNSTLICHES KNIEGELENK

Title (fr)

DISPOSITIF DE COMMANDE A PHASE D'INERTIE POUR ARTICULATION DU GENOU ARTIFICIELLE

Publication

EP 0702538 A1 19960327 (DE)

Application

EP 95913155 A 19950323

Priority

- DE 4410730 A 19940328
- EP 9501101 W 19950323

Abstract (en)

[origin: DE4410730C1] Proposed is a servo-hydraulic swing phase control unit for an artificial knee joint. One end of the control unit has a head element (2) while the other end has a foot element which closes off a cylinder with a reciprocating piston (13) in it. In order to ensure movement-dependent control of the joint, the first and second spaces into which the piston divides the cylinder chamber are connected by a throttle duct (18, 19, 20) whose cross-section can be adjusted by a slide bar (21) as a function of the pressure in the two spaces (15, 16).

IPC 1-7

A61F 2/68; F16F 9/512

IPC 8 full level

A61F 2/64 (2006.01); **A61F 2/68** (2006.01); **A61F 2/50** (2006.01); **A61F 2/74** (2006.01)

CPC (source: EP US)

A61F 2/68 (2013.01 - EP US); **A61F 2/74** (2021.08 - EP); **A61F 2/64** (2013.01 - EP); **A61F 2002/5075** (2013.01 - EP); **A61F 2002/5076** (2013.01 - EP)

Citation (search report)

See references of WO 9526171A1

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL

DOCDB simple family (publication)

DE 4410730 C1 19950608; CN 1125903 A 19960703; EP 0702538 A1 19960327; JP H08511190 A 19961126; WO 9526171 A1 19951005

DOCDB simple family (application)

DE 4410730 A 19940328; CN 95190222 A 19950323; EP 9501101 W 19950323; EP 95913155 A 19950323; JP 52495595 A 19950323