

Title (en)
DYNAMIC SPLINT FOR CARPAL TUNNEL SYNDROME TREATMENT

Title (de)
DYNAMISCHE SCHIENE ZUR BEHANDLUNG DES KARPALTUNNEL-SYNDROMS

Title (fr)
ATTELLE DYNAMIQUE POUR TRAITEMENT DU SYNDROME DU CANAL CARPIEN

Publication
EP 1233733 A4 20040512 (EN)

Application
EP 00961736 A 20000908

Priority

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- US 39157799 A 19990908
- US 22722500 P 20000823

Abstract (en)
[origin: WO0117467A1] A method and apparatus for a splint appliance to apply dynamic pressure to the transverse carpal, volar carpal, an intra carpal ligaments, tending to relieve contractures of the ligaments and thus relieving the pain and correcting altered kinematics associated with carpal tunnel syndrome, thus increasing the carpal volume, while providing free movement of the patient's wrist with minimal impediment during activities of daily living, both at home and at work. The apparatus consists of a forearm component (431) representing the splint body and designed to maintain alignment and support for a biasing means (420) positioned on the ulnar side of the forearm (50), the biasing means (420) consisting of a spring (424) located at approximately the ulnar side of the carpus and connected to a palmar component (410) fastened to the ulnar side of the hand. The biasing component (420) provides resistive force to volar glide in a manner which accurately models the kinematics of the carpus and forearm.

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A61F 5/0118 (2013.01); **A61F 5/013** (2013.01)

Citation (search report)

- [X] US 4677971 A 19870707 - LINDEMANN PEER [US]
- [A] US 5002044 A 19910326 - CARTER PETER R [US]
- [A] US 5653680 A 19970805 - CRUZ MARK K [US]
- See references of WO 0117467A1

Designated contracting state (EPC)
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WO 0117467 A1 20010315; AU 7365000 A 20010410; CA 2384683 A1 20010315; EP 1233733 A1 20020828; EP 1233733 A4 20040512

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