

Title (en)

MODULAR PROSTHESIS FOR AT LEAST PARTIAL REPLACEMENT OF A TUBULAR BONE ADJOINING A JOINT

Title (de)

MODULARE PROTHESE ZUM MINDESTENS TEILWEISEN ERSATZ EINES AN EIN GELENK ANGRENZENDEN RÖHRENKNOCHENS

Title (fr)

PROTHÈSE MODULAIRE POUR LE REMPLACEMENT AU MOINS PARTIEL D'UN OS TUBULAIRE ADJACENT À UNE ARTICULATION

Publication

EP 4031071 A1 20220727 (DE)

Application

EP 20771861 A 20200916

Priority

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Abstract (en)

[origin: WO2021053004A1] Modular endoprosthesis for at least partial replacement of a tubular bone (9), comprising, as module components, a shaft (1) for insertion into a bone cavity of the tubular bone (9), and an end piece (3) comprising a support body (31) with a neck part (32) arranged on the medial aspect thereof, wherein the module components can be coupled to each other and released from each other along a longitudinal axis of the shaft. The end piece (3) has at least two different surface configurations on its support body, namely a closed surface (6') on a medial aspect (36), and a porous configuration (6) of the surface on the opposite, lateral aspect (38). The latter permits and positions the adhesion of muscle tissue, specifically without suturing. The muscle trauma caused by suturing, and the peak loads that occur at the respective suture points, can thus be avoided by virtue of the invention, by means of the location-specific direct adhesion of the muscle. It is thus possible to achieve quicker and reliable mobilization of the patient, and this with a reduced risk of complications.

IPC 8 full level

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CPC (source: CN EP KR US)

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See references of WO 2021053004A1

Cited by

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