

Title (en)

IMPLANTABLE DEVICE FOR LENGTHENING AND CORRECTING MALPOSITIONS OF SKELETAL BONES

Title (de)

IMPLANTIERBARE VORRICHTUNG ZUR VERLÄNGERUNG UND KORREKTUR VON FALSCHSITZENDEN SKELETTKNOCHEN

Title (fr)

DISPOSITIF IMPLANTABLE D'ALLONGEMENT ET DE CORRECTION D'ANOMALIES DE POSITION D'OS DU SQUELETTE

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Abstract (en)

[origin: WO0072783A1] The invention relates to an implantable device (11) for lengthening and correcting malpositions of skeletal bones, which device has an elongate shape comprising a first end (12), a second end (13), a length dimension (14) and a cross-sectional dimension (15). The device (11) further comprises a lengthening means (16) for bringing the first (12) and the second (13) ends into displacement from each other to a predetermined distance (14') between each other after an activation. Thereby, the lengthening means comprises an absorbent body (16), which is arranged for bringing the first (12) and second (13) ends to the predetermined distance (14') by means of a controlled swelling after the activation, while the length dimension (14) increases more than the cross-sectional dimension (15). The invention can advantageously be implemented for lengthening and also for correcting rotational and angular malpositions of skeletal bones, for example in connection with stabilising fractures, post-traumatic bone defects, bone shortenings, malpositions, congenital malformations, and bone defects after tumour surgery.

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