

Technology Offer

Ref.-No. M09/19

Bone repair system

Areas of application

orthopedics, internal fixation

Introduction

A significant number of spine patients suffer from an osteal weakness that can become symptomatic in form of a defect of the pars interarticularis of the lumbar vertebrae, known as spondylolysis. Some of these patients can only be helped by surgery. For this purpose, the lytic fractured portion of the vertebral arch is reduced and fixed in position to allow healing of the bone.

Keywords

osteosynthesis implants, spondylolysis, pars interarticularis, bone repair

Most of the prior art systems entail the assembly of a multitude of individual components. This is not only cumbersome and time-consuming, but also comes along with a restricted variability. The individual components are required to be provided in a variety of different sizes in order to enable sufficient adaptability to individual anatomic conditions.

Development Status

Prototype

Invention

The present invention relates to a bone repair system, in particular for treatment of fractures or defects of the pars interarticularis and provides a quick, easy-to-use and safe implantation, while at the same time sufficient stability is guaranteed.

Commercial Opportunity

The technology is offered for in-licensing and co-development

The system comprising a support member configured to be fixed to a first bone or bone fragment, and a fastening member including a first and a second end portion and an elongate portion extending between the first and the second end portions, wherein the first end portion is coupled to the support member, wherein the elongate portion is configured to loop around at least one second bone or bone fragment and wherein the support member includes fixation means for adjustably securing the second end portion of the fastening member so as to stabilize and/or fix the first and the second bone or bone fragment with respect to each other.

Patent Status

Patent granted in Europe

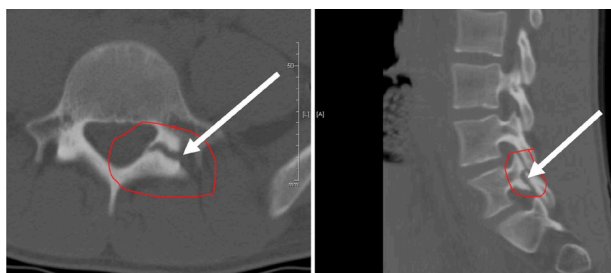
Advantages of the invention

With this new invention only a minimum number of components are needed. The system provides a substantial time-saving for the surgeon and an increased flexibility.

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Clinical case of a defect of the pars interarticularis vertebrae.

