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(71) Applicant(s):

ABBOTT LABORATORIES [US/US]; Dept. 377 Bldg AP6a-1 100 Abbott Park Road Abbott Park, Illinois 60064-6008 (US) *(for all designated states except US)*

FOSTER, Thomas, A. [US/US]; 1550 Kendall Drive Boulder, Colorado 80305 (US) *(for US only)*

HOOPER, David, M. [US/US]; 11207 Morning Glory Drive Austin, Texas 78750 (US) *(for US only)*

MITCHELL, Margaret, E. [US/US]; 1314 Brighton Bend Lane Cedar Park, Texas 78613 (US) *(for US only)*

KRUEGER, David, J. [US/US]; 2210 London Avenue Cedar Park, Texas 78613 (US) *(for US only)*

(72) Inventor(s):

FOSTER, Thomas, A.; 1550 Kendall Drive Boulder, Colorado 80305 (US)

HOOPER, David, M.; 11207 Morning Glory Drive Austin, Texas 78750 (US)

MITCHELL, Margaret, E.; 1314 Brighton Bend Lane Cedar Park, Texas 78613 (US)

KRUEGER, David, J.; 2210 London Avenue Cedar Park, Texas 78613 (US)

(74) Agent(s):

VRIONI, Beth, A.; Dept. 377 Bldg AP6a-1 100 Abbott Park Road Abbott Park, Illinois 60064-6008 (US)

(54) Title (EN): APPARATUS AND METHODS FOR SPINAL IMPLANT WITH DYNAMIC STABILIZATION SYSTEM

(54) Title (FR): DISPOSITIF ET METHODES CONCERNANT UN IMPLANT RACHIDIEN AVEC SYSTEME DE STABILISATION MECANIQUE

(57) Abstract:

(EN): A spinal implant provides support for desired parts of the spine. The implant can provide support in both fusion and non-fusion situations. The spinal implant includes an implant rod and fasteners for coupling or fastening the implant rod to the affected regions of the spine via the pedicles of the affected vertebrae). The implant rod includes a flexible portion and rigid end portions. The fasteners couple the end portions of the rod to the pedicles in the affected level. The flexible portion can take a variety of shapes, such as non-helical, multi-curve springs. One may combine several implant rods to provide an overall implant for more than one level of the spine. The implant can allow desired motion while tending to limit undesirable motion, thus protecting areas of the diseased or injured spine, such as the nucleus pulposus or anulus fibrosis. Furthermore, the implant can provide a combination of rigid and flexible support, as desired. One may manufacture the implant using a variety of materials, such as stainless steel, titanium, or titanium Beta C.

(FR): Cette invention concerne un implant rachidien fournissant un maintien pour certaines parties de la colonne vertébrale, ceci des contextes aussi bien de fusion que de non fusion. L'implant rachidien comprend une tige et des fixations permettant de raccorder et de fixer ladite tige aux zone concernées de la colonne vertébral via les pédicules des vertèbres touchées. La tige de l'implant comprend une partie souple et des parties d'extrémité rigides. Les fixations relient les partes d'extrémité de la tige aux pédicules dans la zone concernée. La partie souple peut revêtir divers aspects, par exemple celui d'un ressort non hélicoïdal multi-courbe. On peut combiner plusieurs tiges d'implant pour créer un implant pour plusieurs niveaux de la colonne vertébrale.

L'implant peut autoriser le mouvement requis tout en tendant à limiter des mouvements indésirables afin de protéger des régions malades ou lésées de la colonne vertébrale telles que le nucleus pulposus or l'anneau gélatineux. De plus, l'implant peut assurer un maintien à la fois rigide et souple, selon besoin. Divers matériaux peuvent être utilisés pour sa fabrication, dont l'acier inoxydable, le titane ou le titane Beta C.

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