

Title (en)  
Prosthesis for simulating natural kinematics

Title (de)  
Prothese zur Simulierung der natürlichen Kinematik

Title (fr)  
Prothèse simulant la cinématique naturelle

Publication  
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Application  
**EP 10173260 A 20081031**

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Abstract (en)  
[origin: WO2009056836A2] A bearing component (2) for a joint replacement prosthesis comprises a first bearing element (4); a second bearing element (6), and a linking element (8), operatively connecting the first and second bearing elements (4, 6) and permitting relative motion there between. The flexible linking element (8) prevents dislocation of mobile bearings in a total knee replacement prosthesis. The invention also relates to a bridging element which retains the linking element 8 with some play, which acts as a ligament support (2051), and which causes a deflection of the line of action of a ligament (1018). A joint replacement prosthesis is also disclosed comprising a biasing element (1140) or a tensioning element (1220) operatively coupled to the artificial ligament (1018). The biasing element (1140) or tensioning element (1220) may be housed in the stem of a tibial tray (1006).

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EP 2653135 B1 20150218; ES 2413030 T3 20130715; ES 2416983 T3 20130805; ES 2422584 T3 20130912; ES 2531704 T3 20150318;  
ES 2548445 T3 20151016; JP 2011502608 A 20110127; JP 2014004472 A 20140116; JP 2014100584 A 20140605; JP 2014111122 A 20140619;  
JP 5425797 B2 20140226; JP 5827668 B2 20151202; JP 5827670 B2 20151202; JP 6054830 B2 20161227; US 10531948 B2 20200114;  
US 2011106265 A1 20110505; US 2013282130 A1 20131024; US 2013297020 A1 20131107; US 2015196386 A1 20150716;  
US 2015196387 A1 20150716; US 2017265989 A1 20170921; US 2018185134 A9 20180705; US 8470048 B2 20130625;  
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ES 10173268 T 20081031; ES 13177085 T 20081031; JP 2010532650 A 20081031; JP 2013181571 A 20130902; JP 2013245313 A 20131127;  
JP 2013252250 A 20131205; US 201313923768 A 20130621; US 201313923779 A 20130621; US 201514666565 A 20150324;  
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