

Title (en)  
IMPLANTABLE BIOLOGICAL JOINT REPLACEMENT

Title (de)  
BIOLOGISCHER IMPLANTIERBARER GELENKERSATZ

Title (fr)  
PROTHÈSE ARTICULAIRE BIOLOGIQUE IMPLANTABLE

Publication  
**EP 2701634 A2 20140305 (DE)**

Application  
**EP 12742086 A 20120417**

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Abstract (en)  
[origin: US2014188229A1] The present invention concerns the problem of solving issues of common mechanical endoprostheses and limitations of current cartilage replacement methods by manufacturing a complete implantable biological joint replacement. Devices which provide for the shaping, diffusion activation and particularly fulling of the joint replacement which is being produced—i.e. compression with alternating pressure and possibly a gliding motion of the fulling device on the surface of the joint replacement—are used in order to produce a weight bearing biological joint replacement with hyaline cartilage. Substances and processes which activate the formation of hyaline cartilage tissues are also provided. At the present time, the biological joint replacement is preferably suitable for implantation into the shoulder and hip, but can also be used for other joints by applying multidimensional grinding techniques.

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