

Title (en)  
SURGICAL RETRACTOR

Title (de)  
CHIRURGISCHER RETRAKTOR

Title (fr)  
ECARTEUR CHIRURGICAL

Publication  
**EP 3509502 A1 20190717 (EN)**

Application  
**EP 17767888 A 20170906**

Priority  
• GB 201615116 A 20160906  
• GB 2017052600 W 20170906

Abstract (en)  
[origin: GB2553372A] A retractor system for holding tissue out of the way of a surgeon during a surgical procedure. The retractor system is operable to apply forces to tissue in a continuous range of directions and comprises a handle 12, a retaining member 14 that is connectable to the handle such that the retaining member 14 is operable to articulate relative to the handle 12, and a retractor stem 16. The retaining member 14 comprises a plurality of spherical seats 24 and the retractor stem 16 comprises a plurality of spherical stoppers 26 that are arranged to engage the spherical seats 24. The stem 16 includes a tissue engaging portion which may be a hook 30. The retractor may include a clamp to attach to the retaining member 14 and hold the stem 16 in place.

IPC 8 full level  
**A61B 17/02** (2006.01)

CPC (source: EP GB)  
**A61B 17/02** (2013.01 - EP GB); **A61B 17/0206** (2013.01 - GB); **A61B 17/0293** (2013.01 - EP); **A61B 90/50** (2016.02 - EP);  
**A61B 2017/0287** (2013.01 - EP GB)

Citation (search report)  
See references of WO 2018046916A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**GB 201615116 D0 20161019; GB 2553372 A 20180307**; EP 3509502 A1 20190717; WO 2018046916 A1 20180315

DOCDB simple family (application)  
**GB 201615116 A 20160906**; EP 17767888 A 20170906; GB 2017052600 W 20170906