

Title (en)
PERCUTANEOUS ACCESS AND VISUALIZATION OF THE SPINE

Title (de)
PERKUTANER ZUGANG ZUR UND VISUALISIERUNG DER WIRBELSÄULE

Title (fr)
ACCES PAR VOIE PERCUTANEE ET VISUALISATION DE LA COLONNE VERTEBRALE

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Application
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Abstract (en)
[origin: CN101528110A] The present invention discloses devices, systems and methods are provided for the percutaneous access and visualization of the spine for the purposes of diagnosing and/or treating a target area of the spine or the surrounding tissue.

IPC 8 full level
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Citation (search report)
• [X] DE 20121250 U1 20030206 - POLYDIAGNOST GMBH [DE]
• [X] US 2005159645 A1 20050721 - BERTOLERO ARTHUR A [US], et al
• [X] US 2004210116 A1 20041021 - NAKAO NAOMI [US]
• [A] WO 2005048828 A1 20050602 - ETHICON ENDO SURGERY INC [US], et al
• [A] US 6423055 B1 20020723 - FARR NORMAN E [US], et al
• [A] US 2003004460 A1 20030102 - BEDELL RAYMOND L [US]
• See references of WO 2007106081A2

Citation (examination)
US 6440061 B1 20020827 - WENNER DONALD E [US], et al

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