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(54) **METHOD FOR PRODUCING A WEIGHTED MAGNETIC RESONANCE IMAGE**

VERFAHREN ZUR ERZEUGUNG EINES GEWICHTETEN MAGNETISCHEN RESONANZBILDES  
MÉTHODE POUR PRODUIRE UNE IMAGE PAR RÉSONANCE MAGNÉTIQUE PONDÉRÉE

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(56) References cited:  
**US-A- 6 163 152 US-A1- 2012 068 703**

- **BLACKLEDGE MATTHEW DAVID ET AL:**  
**"Noise-corrected exponential DWI using**  
**multi-acquisition MRI facilitates quantitative**  
**evaluation of whole-body skeletal tumour burden**  
**in patients with metastatic prostate cancer",**  
**PROCEEDINGS OF THE INTERNATIONAL**  
**SOCIETY FOR MAGNETIC RESONANCE IN**  
**MEDICINE, 24ND ANNUAL MEETING AND**  
**EXHIBITION, SINGAPORE, 7-13 MAY 2016, vol.**  
**24, 23 April 2016 (2016-04-23), page 2422,**  
**XP040683463,**

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| <ul style="list-style-type: none"> <li>• SERGIOS GATIDIS ET AL: "Apparent diffusion coefficient-dependent voxelwise computed diffusion-weighted imaging: An approach for improving SNR and reducing T 2 shine-through effects", JOURNAL OF MAGNETIC RESONANCE IMAGING, vol. 43, no. 4, 8 September 2015 (2015-09-08), pages 824-832, XP055377947, US ISSN: 1053-1807, DOI: 10.1002/jmri.25044 cited in the application</li> <li>• MATTHEW D BLACKLEDGE ET AL: "Assessment of treatment response by total tumor volume and global apparent diffusion coefficient using diffusion-weighted MRI in patients with metastatic bone disease: a feasibility study", PLOS ONE, vol. 9, no. 4, 7 April 2014 (2014-04-07), page e91779, XP055377906, US ISSN: 1932-6203, DOI: 10.1371/journal.pone.0091779 cited in the application</li> </ul> | <ul style="list-style-type: none"> <li>• MATTHEW D BLACKLEDGE ET AL: "Computed Diffusion-weighted MR Imaging May Improve Tumor Detection", RADIOLOGY, vol. 261, no. 2, 1 November 2011 (2011-11-01), pages 573-581, XP055377890, DOI: 10.1148/radiol.11101919/-/DC1 cited in the application</li> </ul> |
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