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(54) **Title:** A METHOD FOR PREPARING GADOBUTROL

(57) **Abstract:** The present disclosure relates to a novel method for preparing high-purity gadobutrol. The present disclosure can be easily applied to a large scale production because purity of intermediate can be managed via simple and mild process and accordingly, high-purity or ultra high-purity gadobutrol that has higher purity than previous gadobutrol can be prepared in high yield therethrough.



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2015/014301**A. CLASSIFICATION OF SUBJECT MATTER****C07D 257/02(2006.01)i, C07F 5/00(2006.01)i, A61K 49/04(2006.01)i**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C07D 257/02; C01F 17/00; C07D 405/04; C07F 5/00; G01R 33/48; A61K 49/10; A61K 49/04

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS(KIPO internal), Google & keywords: gadobutrol, gadolinium, acid hydrolysis, crystallization

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PLATZEK, J. et al., "Synthesis and structure of a new macrocyclic polyhydroxylated gadolinium chelate used as a contrast agent for magnetic resonance imaging.", Inorganic chemistry, 1997, Vol. 36, No. 26, pp. 6086-6093 See abstract; schemes 1-3.	1-14
A	KR 10-2014-0035911 A (BAYER INTELLECTUAL PROPERTY GMBH) 24 March 2014 See abstract; claims 1-15; and figures 12-14.	1-14
A	KR 10-2013-0089229 A (BAYER INTELLECTUAL PROPERTY GMBH) 09 August 2013 See abstract; and claims 1-3.	1-14
A	KR 10-2013-0138807 A (BRACCO IMAGING S.P.A.) 19 December 2013 See abstract; example 3; and scheme 4.	1-14
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A	JP 06-228115 A (SCHERING AKTIENGESELLSCHAFT) 16 August 1994 See abstract; and claims 1-10.	1-14



Further documents are listed in the continuation of Box C.



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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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