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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

[Continued on next page]

(54) Title: METHODS AND MATERIALS FOR PROLONGING USEFUL STORAGE OF RED BLOOD CELL PREPARATIONS AND PLATELET PREPARATIONS

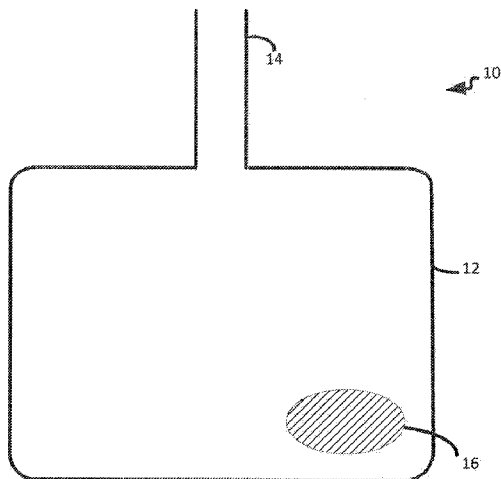


Figure 1

(57) Abstract: This document provides methods and materials for enhancing the storage capabilities of red blood cell preparations. For example, methods and materials for using CO₂ to store red blood cells in a manner that (a) reduces the level of glucose or 2,3-DPG consumption of or reduces the level of 2,3-DPG production by a red blood cell preparation, (b) reduces the level of lactate formation by a red blood cell preparation, and/or (c) reduces the pH level of a red blood cell preparation are provided. Such methods and materials can result in prolonging the useful lifespan of the red blood cells of the red blood cell preparation. This document also provides methods and materials involved in prolonging useful storage of platelet preparations. For example, methods and materials for storing platelets in a manner that reduces platelet metabolism, that preserves platelet function, and/or that reduces the risk of bacterial contamination are provided.

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— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))* — *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

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A. CLASSIFICATION OF SUBJECT MATTER*A01N 1/02(2006.01)i, A61J 1/05(2006.01)i, C12N 5/02(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)

A01N 1/02; A61J 1/10; C08L 27/06; A61M 1/02; B29D 22/00; A61L 2/00; A61J 1/05; A61K 35/14

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) & Keywords: RBC, carbon dioxide

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
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| A | WO 96-15757 A1 (BAXTER INTERNATIONAL INC.) 30 May 1996 See abstract; pages 3-10; fig. 1. | 1-51 |
| A | JP 2007-130503 A (JMS CO., LTD.) 31 May 2007 See abstract; paragraphs [0002]-[0012],[0015]-[0023],[0027]; fig. 1. | 1-51 |
| A | WO 2008-034476 A1 (MACO PHARMA S.A. et al.) 27 March 2008 See abstract; pages 3-7,9; whole claims. | 1-51 |
| A | WO 03-094936 A1 (SAFETIN LTD. et al.) 20 November 2003 See abstract; pages 6-9,13-21; fig. 9; whole claims. | 1-51 |

 Further documents are listed in the continuation of Box C. See patent family annex.

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INTERNATIONAL SEARCH REPORT

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