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Declarations under Rule 4.17:

[Continued on next page]

(54) Title: METHODS FOR DISSOLVING POLYMERS USING MIXTURES OF DIFFERENT IONIC LIQUIDS AND COMPOSITIONS COMPRISING THE MIXTURES

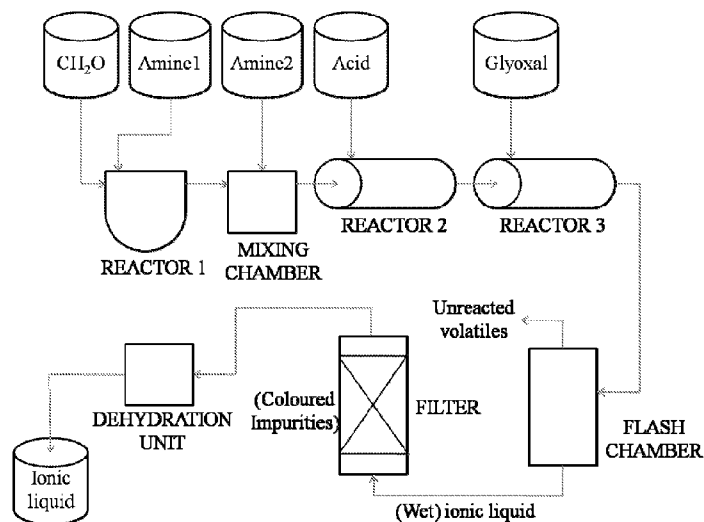


Figure 1

(57) Abstract: Disclosed are methods for dissolving biopolymers and synthetic polymers using mixtures of different ionic liquids and compositions comprising the mixture. The methods involve contacting a polymer with a mixture of ionic liquids to provide a composition of polymer and the mixture; the mixture of ionic liquids is prepared by either mixing ionic liquids or by a process comprising reacting ionic liquid precursors in one-pot to form the ionic liquids.

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- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))*
 - *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))*
 - *of inventorship (Rule 4.17(iv))*
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PCT/US2010/055381**A. CLASSIFICATION OF SUBJECT MATTER***C08J 3/02(2006.01)i, B01F 1/00(2006.01)i, B01F 3/08(2006.01)i, B01F 11/02(2006.01)i, C08L 101/00(2006.01)i*

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

B. FIELDS SEARCHED

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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: dissolution, ionic liquid, polymer

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| X | US 6824599 B2 (SWATLOSKI, RICHARD PATRICK et al.) 30 November 2004 See abstract; col. 12, lines 20-27; examples; claims. | 1-24 |
| X | US 2007-0225191 A1 (SCHEIBEL, JEFFREY JOHN et al.) 27 September 2007 See abstract; Par.[0016]-[0017], [0032], and [0035]; claims. | 1-24 |
| A | US 2005-0288484 A1 (HOLBREY, JOHN et al.) 29 December 2005 See the whole document. | 1-24 |
| A | US 2007-0112185 A1 (MYLLYMAKI, VESA et al.) 17 May 2007 See the whole document. | 1-24 |

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

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Information on patent family members

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| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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