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(54) Title: NATURAL BLUE FLAVORANTS AND COLORANTS

(57) Abstract: A natural blue flavorant and/or solution that is stable at pH 3.0 up to 7.0 is produced by extracting plant materials with organic solvents and or water with the addition of aluminum and or stannous salts. The solvents are removed thus allowing the flavorant to provide a blue hue when incorporated into products within the 3.0 to 7.0 pH range. The natural blue flavorant can be used in combination with natural yellow flavorants to produce natural green flavorants of various shades.

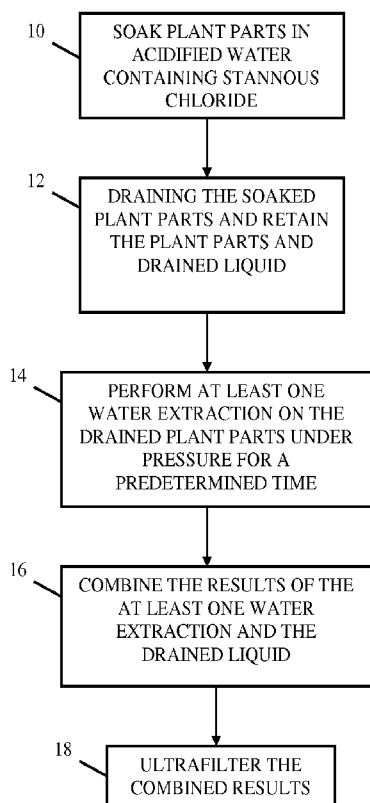


FIGURE 1



WO 2010/115073 A3



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A. CLASSIFICATION OF SUBJECT MATTER*A23L 1/221(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)

A23L 1/221; A23L 1/27; A61K 36/87; A61K 36/82; A01N 65/00; A61K 8/97; A61K 35/78; A61K 8/19; A61Q 11/00

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: plant extract, metallic salt, ingredient, food, beverage, stannous chloride, colorant, flavorant, etc.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0859557 B1 (NATUREX INC., US) 21 March 2007 See the whole document	1-16
A	WO 2007-111362 A1 (TAKASAGO INTERNATIONAL CORPORATION, JP) 04 October 2007 See the whole document	1-16
A	US 2006-0141072 A1 (EVANGELIA S. ARVANITIDOU and MICHAEL PRENCIPE, US) 29 June 2006 See the whole document	1-16
A	US 2008-0008667 A1 (STEVE HOKE et al., US) 10 January 2008 See the whole document	1-16
A	US 6303125 B1 (ITZHAK OFEK et al., IL) 16 October 2001 See the whole document	1-16
A	US 2004-0156925 A1 (AMY B. HOWELL and NICHOLI VORSA, US) 12 August 2004 See the whole document	1-16

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

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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Information on patent family members

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