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(54) Title: NOVEL METHOD OF PREPARING SECONDARY AMINE COMPOUND USING MICROFLOW REACTOR

(57) Abstract: Disclosed is a novel method of preparing a secondary amine compound using a microflow reactor. According to the method, a primary amine compound and a halide compound are allowed to react with each other in the microflow reactor, such that the production of a tertiary amine compound or an ammonium salt is minimized, whereby the secondary amine compound is efficiently prepared.



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A. CLASSIFICATION OF SUBJECT MATTER*C07C 209/10(2006.01)i, C07C 211/48(2006.01)i, B01J 19/00(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)

C07C 209/10; C07K 1/06; C07C 211/00; C07C 273/02; C07C 275/68; C07C 237/22

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: secondary amine, microflow

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6423871 B1 (KYUNG WOON JUNG) 23 July 2002 See the whole document.	1-11
A	KR 10-2002-0072284 A (OM PHARMA) 14 September 2002 See the whole document.	1-11
A	KR 10-1981-0000556 B1 (TANABE PHARM. CO.) 01 June 1981 See the whole document.	1-11



Further documents are listed in the continuation of Box C.



See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6423871 B1	23.07.2002	None	
KR 10-2002-0072284 A	14.09.2002	AU 2001-28572 A1 CA 2395197 A1 CN 101164543 A0 EP 1242365 A1 JP 2003-518086 A TW 237022 B US 2003-203852 A1 US 2005-0192232 A1 US 2010-0215685 A1 US 7799762 B2 WO 01-46126 A1 WO 01-46127 A1	03.07.2001 28.06.2001 23.04.2008 25.09.2002 03.06.2003 01.08.2005 30.10.2003 01.09.2005 26.08.2010 21.09.2010 28.06.2001 28.06.2001
KR 10-1981-0000556 B1	01.06.1981	None	