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(54) **Title:** CLEANING FORMULATIONS AND USES THEREOF

(57) **Abstract:** Cleaning compositions and methods of using such compositions. The compositions comprise oxidizing agent(s); weak acid(s), and non-ionic surfactant(s) (e.g., a combination of short-chain non-ionic surfactant(s) and long-chain non-ionic surfactant(s)). The compositions can be used to clean objects such as reusable water containers, home seltzer-maker bottles, hydration bladders, etc.



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A. CLASSIFICATION OF SUBJECT MATTER*C11D 3/10(2006.01)i, C11D 3/20(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)

C11D 3/10; C11D 1/00; C11D 17/06; C11D 3/00; C11D 17/00

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: cleaning, non-ionic surfactant, oxidizing agent, weak acid, long chain non-ionic surfactant, short chain non-ionic surfactant

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002-0058605 A1 (ERIK SCHMIDT et al.) 16 May 2002 See [0031]-[0041] and claims 1-15.	1-12
A	US 2005-0119153 A1 (DIANE BURT et al.) 02 June 2005 See [0071]-[0072] and claim 1.	1-12
A	US 2002-0160929 A1 (AMRAT PAUL SINGH et al.) 31 October 2002 See [0150].	1-12
A	US 2007-0179076 A1 (KEITH GIBSON et al.) 02 August 2007 See [0216].	1-12
A	US 2005-0043199 A1 (GIORGIO FRANZOLIN et al.) 24 February 2005 See [0119].	1-12



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