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(54) **Title:** COMPOSITIONS COMPRISING AN ANTIHISTAMINE, ANTITUSSIVE AND DECONGESTANT IN EXTENDED RELEASE FORMULATIONS

(57) **Abstract:** The invention provides oral formulations for the treatment of cold and allergy symptoms. Each formulation combines an antihistamine, an antitussive, and/or a decongestant into one extended release composition. The invention further provides for methods of making and using such formulations, as well as for methods for preventing abuse or extraction of a single drug present in an oral extended release composition comprising two or more of an antihistamine, antitussive, and/or decongestant.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 10/32958

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - A01N 43/42; A61K 31/44 (2010.01)

USPC - 514/282

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)

USPC - 514/282

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
USPC - 424/457; 424/468; 514/214.02; 514/226.2; 514/23; 514/255.04; 514/648; 514/653 (see search terms below)Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
USPTO-WEST - PGPB, USPT, USOC, EPAB, JPAB keywords: extended release, immediate release, pharmaceutical formulation, oral administration, active pharmaceutical, antihistamine, chlorpheniramine, antitussive, decongestant, pseudoephedrine, resin beads, capsule, tablet, hydrocodone, tamper resistant. INTERNET search - Google - same

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,133,974 A (PARADISSIS et al.) 28 July 1992 (28.07.1992) col 3, ln 18-68; col 4, ln 1-17, ln 26-29, ln 34-35, ln 40-44; col 5, ln 23-col 6, ln 30; col 7, ln 65-col 8, ln 3; col 9, ln 12-16, ln 24-28	1-22
Y	US 2008/0292699 A1 (BROWN et al.) 27 November 2008 (27.11.2008) para [0004]-[0005], [0008], [0014]-[0016], [0027], [0029], [0036], [0038], [0048]-[0051]	1-22
Y	US 2009/0081290 A1 (MCKENNA et al.) 26 March 2009 (26.03.2009) para [0002], [0011]-[0013], [0100], [0114]-[0116], [0127], [0135], [0184]-[0201]	16-22

☐ Further documents are listed in the continuation of Box C. ☐

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"A" document defining the general state of the art which is not considered to be of particular relevance	"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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"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
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