

Title (en)
PRODUCT FOR THE RELEASE OF ACTIVE SUBSTANCES

Title (de)
PRODUKT ZUR FREISETZUNG VON WIRKSTOFFEN

Title (fr)
PRODUIT LIBERANT DES PRINCIPES ACTIFS

Publication
EP 2707535 A2 20140319 (EN)

Application
EP 12723892 A 20120504

Priority
• GB 201107494 A 20110505
• GB 201112404 A 20110719
• GB 2012050971 W 20120504

Abstract (en)
[origin: WO2012150459A2] A delivery system for an active substance, comprising a substrate on which the substance is loaded for subsequent release, wherein: (i) the substrate has been at least partially coated with a polymer using plasma deposition (preferably pulsed plasma deposition); (ii) the active substance is present as a guest molecule within a cyclodextrin inclusion complex; and (iii) the inclusion complex is bound to the polymer through a chemical linkage formed between a hydroxyl group on the cyclodextrin and a functional group on the polymer. The system may be used to control the release of an active substance such as a perfume. Also provided are methods for preparing (a) the delivery system and (b) a functionalised substrate for use as part of the system, in which the polymer is suitably reacted with a cyclodextrin using an S N 2 nucleophilic substitution reaction, in particular a Williamson ether synthesis reaction.

IPC 8 full level
D06M 10/10 (2006.01); **A61K 8/73** (2006.01); **C08J 7/12** (2006.01); **C08J 7/18** (2006.01); **C09D 105/16** (2006.01); **D06M 10/02** (2006.01); **D06M 15/03** (2006.01)

CPC (source: EP GB)
A61K 8/738 (2013.01 - EP GB); **A61K 8/8123** (2013.01 - EP); **A61K 47/6953** (2017.07 - GB); **A61Q 13/00** (2013.01 - EP GB); **C08B 37/0015** (2013.01 - EP GB); **C08L 5/16** (2013.01 - GB); **C09D 105/16** (2013.01 - EP); **D06M 10/025** (2013.01 - EP); **D06M 10/10** (2013.01 - EP); **D06M 15/03** (2013.01 - EP); **A61K 2800/56** (2013.01 - EP GB); **A61K 2800/624** (2013.01 - EP); **B05D 1/185** (2013.01 - EP); **B05D 1/62** (2013.01 - EP)

Citation (search report)
See references of WO 2012150459A2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2012150459 A2 20121108; **WO 2012150459 A3 20130103**; CN 103814169 A 20140521; EP 2707535 A2 20140319; GB 201207822 D0 20120613; GB 2490782 A 20121114; GB 2490782 B 20131204; TW 201311965 A 20130316

DOCDB simple family (application)
GB 2012050971 W 20120504; CN 201280032861 A 20120504; EP 12723892 A 20120504; GB 201207822 A 20120504; TW 101116055 A 20120504