

Title (en)
METHOD OF CONTROLLING RELEASE OF ANTIMICROBIAL AGENTS IN CHEWING GUM AND GUM PRODUCED THEREBY

Title (de)
VERFAHREN ZUR KONTROLLIERTEN ABGABE ANTIMIKROBIELLER MITTEL IN KAUGUMMI SOWIE DADURCH HERGESTELLTER KAUGUMMI

Title (fr)
PROCEDE PERMETTANT DE REGULER LA LIBERATION D'AGENTS ANTIMICROBIENS DANS UNE GOMME A MACHER ET GOMME A MACHER PRODUITE SELON CE PROCEDE

Publication
EP 1043937 A4 20040512 (EN)

Application
EP 97953531 A 19971230

Priority
US 9724132 W 19971230

Abstract (en)
[origin: WO9933352A1] A method for producing a chewing gum with a controlled release of an antimicrobial agent, as well as the chewing gum so produced, is obtained by physically modifying the release properties of the antimicrobial agent by coating and drying. The antimicrobial agent is coated by encapsulation, partially coated by agglomeration, entrapped by absorption, or treated by multiple steps of encapsulation, agglomeration, and absorption. The coated antimicrobial agent is preferably then co-dried and particle sized to produce a release-modified antimicrobial agent for use in chewing gum. When incorporated into the chewing gum, these particles are adapted to produce a fast release or a delayed release when the gum is chewed. The preferred antimicrobial agent is chlorhexidine digluconate.

IPC 1-7
A23G 3/30; A61K 9/68

IPC 8 full level
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CPC (source: EP)
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Citation (search report)

- [X] WO 9603111 A1 19960208 - APPLIED PHARMA RES [CH], et al
- [X] WO 9534274 A1 19951221 - BOOTS CO PLC [GB], et al
- [X] US 5626837 A 19970506 - SHIMADA TOSHIYA [JP], et al
- [X] US 4980150 A 19901225 - KEITH ALEC D [US]
- [X] US 5496540 A 19960305 - GAFFAR ABDUL [US], et al
- [X] WO 9637183 A2 19961128 - WARNER LAMBERT CO [US]
- [X] WO 9311754 A1 19930624 - PROCTER & GAMBLE [US]
- [X] US 5380530 A 19950110 - HILL IRA D [US]
- [X] US 5693334 A 19971202 - MISKEWITZ REGINA M [US]
- [DX] US 5300305 A 19940405 - STAPLER JUDITH H [US], et al
- [DX] EP 0399479 A1 19901128 - GERGELY GERHARD [AT]
- [DX] US 5032385 A 19910716 - REED JOHN V [GB], et al
- [A] US 5616315 A 19970401 - MASTERMAN THOMAS C [US], et al
- [A] US 5334375 A 19940802 - NABI NURAN [US], et al
- See references of WO 9933352A1

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