

Title (en)  
COMPOSITION AND METHOD TO ALLEVIATE JOINT PAIN USING HYALURONIC ACID AND EGGSHELL MEMBRANE COMPONENTS

Title (de)  
ZUSAMMENSETZUNG UND VERFAHREN ZUR LINDERUNG VON GELENKSCHMERZEN MIT HYALURONSÄURE UND BESTANDTEILEN  
AUS EIERSCHELENMEMBRAN

Title (fr)  
COMPOSITION ET PROCÉDÉ POUR SOULAGER LES DOULEURS ARTICULAIRES AU MOYEN D'ACIDE HYALURONIQUE ET DE  
COMPOSANTS DE MEMBRANE DE COQUILLE D'UF

Publication  
**EP 3796898 A1 20210331 (EN)**

Application  
**EP 18740415 A 20180621**

Priority  
• US 201815987964 A 20180524  
• US 2018038705 W 20180621

Abstract (en)  
[origin: WO2019226186A1] A dietary supplement composition is formulated in an oral dosage form and in a therapeutic amount to treat and alleviate symptoms of joint pain in an animal, and includes eggshell membrane, astaxanthin, and pro-inflammatory low molecular weight hyaluronic acid/hyaluronan having a molecular weight of 0.5 to 300 kilodaltons (kDa) and high molecular weight hyaluronic acid/hyaluronan having a molecular weight greater than 300 kDa. The high molecular weight hyaluronic acid/hyaluronan is greater than 50 percent of the total for the low and high molecular weight hyaluronic acid/hyaluronan and effective to modulate the low molecular weight hyaluronic acid/hyaluronan.

IPC 8 full level  
**A61K 31/047** (2006.01); **A61K 31/065** (2006.01); **A61K 31/10** (2006.01); **A61K 31/12** (2006.01); **A61K 31/122** (2006.01);  
**A61K 31/7008** (2006.01); **A61K 31/7076** (2006.01); **A61K 31/728** (2006.01); **A61K 31/737** (2006.01)

CPC (source: EP)  
**A61K 31/047** (2013.01); **A61K 31/065** (2013.01); **A61K 31/10** (2013.01); **A61K 31/12** (2013.01); **A61K 31/122** (2013.01);  
**A61K 31/7008** (2013.01); **A61K 31/7076** (2013.01); **A61K 31/728** (2013.01); **A61K 31/737** (2013.01); **A61P 19/02** (2017.12)

Citation (search report)  
See references of WO 2019226186A1

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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**DE 202018105987 U1 20181219**; EP 3796898 A1 20210331; JP 2020523281 A 20200806; WO 2019226186 A1 20191128

DOCDB simple family (application)  
**DE 202018105987 U 20180621**; EP 18740415 A 20180621; JP 2018549887 A 20180621; US 2018038705 W 20180621