

Title (en)
COLOR MASTERBATCH FOR PRODUCING A COLORED PLASTIC ARTICLE AND METHOD FOR DECOLORING THE COLORED PLASTIC ARTICLE

Title (de)
FARBMASTERBATCH ZUR HERSTELLUNG EINES FARBIGEN KUNSTSTOFFARTIKELS UND VERFAHREN ZUM ENTFÄRBEN DES FARBIGEN KUNSTSTOFFARTIKELS

Title (fr)
MÉLANGE MAÎTRE DE COULEUR POUR LA PRODUCTION D'UN ARTICLE COLORÉ EN PLASTIQUE ET PROCÉDÉ DE DÉCOLORATION DE L'ARTICLE COLORÉ EN PLASTIQUE

Publication
EP 4314121 A1 20240207 (EN)

Application
EP 22718635 A 20220325

Priority
• EP 21165455 A 20210329
• EP 2022057966 W 20220325

Abstract (en)
[origin: EP4067413A1] The present invention is directed to a color masterbatch for producing colored plastic articles, wherein the color masterbatch comprises:- at least one carrier,- at least one coloring agent, and- at least one water-soluble or water-swellaable component;wherein the at least one carrier is an organic polymer having a molecular weight $M_w \geq 1000$ g/mol and wherein the organic polymer is insoluble in water,wherein an amount of the water-soluble or water-swellaable component in the color masterbatch is ≥ 1 wt% to ≤ 50 wt%, preferably ≥ 2 wt% to ≤ 25 wt%, more preferably ≥ 4 wt% to ≤ 20 wt%, even more preferably ≥ 5 wt% to ≤ 15 wt%, based on the total weight of the color masterbatch,wherein the coloring agent is a lake pigment, andwherein a weight ratio of the coloring agent to the water-soluble or water-swellaable component in the color masterbatch is 1:2 to 1:200, preferably 1:5 to 1:50.

IPC 8 full level
C08J 3/20 (2006.01); **C08J 3/22** (2006.01)

CPC (source: EP)
C08J 3/203 (2013.01); **C08J 3/226** (2013.01); **C08J 2323/06** (2013.01); **C08J 2333/06** (2013.01); **C08J 2429/04** (2013.01); **C08J 2433/06** (2013.01)

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

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4067413 A1 20221005; EP 4314121 A1 20240207; WO 2022207500 A1 20221006

DOCDB simple family (application)
EP 21165455 A 20210329; EP 2022057966 W 20220325; EP 22718635 A 20220325