

Title (en)
PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES SPRÜHGETROCKNETEN WASCHMITTELPARTIKELS

Title (fr)
PROCÉDÉ DE PRÉPARATION D'UNE PARTICULE DE DÉTERGENT SÉCHÉE PAR ATOMISATION

Publication
EP 4341366 A1 20240327 (EN)

Application
EP 22729207 A 20220517

Priority
• EP 21174572 A 20210519
• EP 2022063232 W 20220517

Abstract (en)
[origin: WO2022243264A1] The present invention relates to a process for preparing of a particulate, free flowing detergent particle by a slurry making and spray drying technique. In particular it relates to the process for preparing a slurry with lower alkalinity for the production of spray dried laundry detergent particle. Accordingly, it is one object of this invention to provide a process for preparing a spray dried detergent particle where the spray dried particle has excellent powder properties and provides a wash liquor with lower alkalinity and provides good stain removal performance without being harsh on hands and fabrics.. The present inventors have found that a spray-dried detergent particle having a combination of silicate salt and/or disilicate salt of alkaline earth metal, alkali metal silicate and low levels of carbonate salt prepared by a process where the silicate and/or disilicate salt of alkaline earth metal is formed in-situ provides for excellent powder properties with extended shelf life without getting caked and the spray-dried particles provides desired pH in wash solution to provide for good stain removal performance without being harsh on the hands or the fabrics.

IPC 8 full level
C11D 1/02 (2006.01); **C11D 3/04** (2006.01); **C11D 3/08** (2006.01); **C11D 3/10** (2006.01); **C11D 3/12** (2006.01); **C11D 11/02** (2006.01)

CPC (source: EP)
C11D 1/02 (2013.01); **C11D 3/046** (2013.01); **C11D 3/08** (2013.01); **C11D 3/10** (2013.01); **C11D 11/02** (2013.01); **C11D 3/122** (2013.01); **C11D 3/1233** (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)
WO 2022243264 A1 20221124; BR 112023024027 A2 20240206; CN 117321182 A 20231229; EP 4341366 A1 20240327

DOCDB simple family (application)
EP 2022063232 W 20220517; BR 112023024027 A 20220517; CN 202280035898 A 20220517; EP 22729207 A 20220517