

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 PULVÉRISATION

Publication  
**EP 4402234 A1 20240724 (EN)**

Application  
**EP 22789173 A 20220913**

Priority  
• EP 21196792 A 20210915  
• EP 2022075404 W 20220913

Abstract (en)  
[origin: WO2023041525A1] The present invention relates to a process for preparing a spray-dried detergent particle. Particularly to spray-dried laundry detergent particles with low pH, low alkalinity and have good particle characteristics. It is yet another object of the present invention to provide a spray dried detergent particle with low levels of alkaline builders such as carbonate and silicate and yet having good powder properties over extended storage periods. The present inventors have found that a spray dried detergent particle having an in-situ formed reaction product selected from the group consisting of organic carboxylic acid salt of aluminium, aluminium complex of organic carboxylic acid or mixtures thereof, provides for excellent powder properties and extended shelf life without getting caked. It is also surprisingly found that the spray-dried particle provides desired pH in wash solution required for good stain removal performance without being harsh on the hands or the fabrics.

IPC 8 full level  
**C11D 1/14** (2006.01); **C11D 1/22** (2006.01); **C11D 1/29** (2006.01); **C11D 3/08** (2006.01); **C11D 3/20** (2006.01); **C11D 11/00** (2006.01); **C11D 11/02** (2006.01); **C11D 11/04** (2006.01); **C11D 17/06** (2006.01)

CPC (source: EP)  
**C11D 1/146** (2013.01); **C11D 1/22** (2013.01); **C11D 1/29** (2013.01); **C11D 3/08** (2013.01); **C11D 3/2086** (2013.01); **C11D 11/02** (2013.01); **C11D 11/04** (2013.01); **C11D 17/06** (2013.01); **C11D 2111/12** (2024.01)

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 2023041525 A1 20230323**; CN 117940542 A 20240426; EP 4402234 A1 20240724

DOCDB simple family (application)  
**EP 2022075404 W 20220913**; CN 202280061822 A 20220913; EP 22789173 A 20220913