

Title (en)  
MANUFACTURING CALCIUM SULFONATE GREASES USING ALKALI METAL HYDROXIDE AND DELAYED ADDITION OF NON-AQUEOUS CONVERTING AGENTS

Title (de)  
HERSTELLUNG VON SULFONATSCHMIERFETT UNTER VERWENDUNG VON ALKALIMETALLHYDROXID UND VERZÖGERTER ZUGABE VON WASSERFREIEN UMWANDLUNGSMITTELN

Title (fr)  
FABRICATION DE GRAISSES DE SULFONATE DE CALCIUM À L'AIDE D'UN HYDROXYDE DE MÉTAL ALCALIN ET PAR ADDITION DIFFÉRÉE D'AGENTS DE CONVERSION NON AQUEUX

Publication  
**EP 3400280 B1 20231004 (EN)**

Application  
**EP 16884167 A 20161214**

Priority

- US 201614990473 A 20160107
- US 201615130422 A 20160415
- US 2016066578 W 20161214

Abstract (en)  
[origin: WO2017120000A1] An overbased calcium sulfonate grease composition and method of manufacture comprising added alkali metal hydroxide alone or in combination with (a) calcium hydroxyapatite and/or added calcium carbonate used as calcium containing bases for reacting with complexing acids) and/or (b) at least one delay period between the addition of water as a converting agent and addition of a portion of a non-aqueous converting agent. A delay period may involve the period of time it takes to adjust the temperature of the mixture, a period of time during which the mixture is held at a temperature or within a range of temperatures, and multiples and any combination thereof. These calcium sulfonate greases have improved thickener yield and high dropping points compared to greases made without added alkali metal hydroxide and delay between the additions of water and a non-aqueous converting agent, particularly when a poor quality overbased calcium sulfonate is used.

IPC 8 full level  
**C10M 159/24** (2006.01); **C10N 50/10** (2006.01); **C10N 70/00** (2006.01)

CPC (source: EP KR)  
**C10M 159/24** (2013.01 - EP KR); **C10M 2201/062** (2013.01 - EP KR); **C10M 2219/089** (2013.01 - EP KR); **C10N 2050/10** (2013.01 - EP KR); **C10N 2070/00** (2013.01 - EP KR)

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