

Title (en)
Chemical pulping process

Title (de)
Chemisches Aufschlu verfahren

Title (fr)
Procédé chimique de réduction en pâte

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Application
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US 7641398 A 19980512

Abstract (en)
The present invention claims the use of an oxyalkylene-modified organopolysiloxane, in combination with an alkylated sulfonated diphenyloxide surfactant, as chemical pulping additives. These pulping additives surprisingly improve the physical properties of wood pulp and products produced therefrom.

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D21C 3/00

IPC 8 full level
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CPC (source: EP)
D21C 3/003 (2013.01); **D21C 3/222** (2013.01)

Citation (search report)

- [DYA] DE 4440186 A1 19960515 - WACKER CHEMIE GMBH [DE]
- [DYA] WO 9641915 A1 19961227 - HENKEL CORP [US]
- [DYA] US 3147179 A 19640901 - SIMMONS WILLIAM B, et al
- [DYA] US 5464502 A 19951107 - PEASE JACQUELINE K [US]
- [DA] US 5250152 A 19931005 - LING TIEN-FENG [US], et al
- [A] US 5728265 A 19980317 - SAINT VICTOR MARIE-ESTHER [US], et al
- [A] WO 9205854 A1 19920416 - WACKER CHEMIE GMBH [DE]

Cited by
EP1064844A1; US11390990B2; WO2019079388A1; WO2005017252A1; WO0114631A1; WO2013029764A3; WO2013029764A2; US9567244B2

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