

Title (en)
Mineral fillers and pigments containing carbonate

Title (de)
Carbonat-haltige mineralische Füllstoffe und Pigmente

Title (fr)
Charges et pigments minéraux contenant du carbonate

Publication
EP 0531685 B2 20020904 (DE)

Application
EP 92112697 A 19920724

Priority
DE 4128570 A 19910828

Abstract (en)
[origin: EP0531685A1] Carbonate-containing mineral fillers, pigments or similar materials are described which are characterised in that they have
a) a rhombohedral or substantially circular particle shape, b) a steepness factor from 1.1 to 1.4, c) a ratio $R = \frac{\text{DIVIDED \% of the particles} < 0.2 \mu\text{m}}{\text{DIVIDED \% of the particles} < 0.2 \mu\text{m} = 8 \text{ to } 19}$ and d) a mean statistical particle diameter of 0.4 - 1.5 μm . These materials can be used in the paper industry both as paper filler and as coating pigment. <IMAGE>

IPC 1-7
D21H 17/67; **D21H 19/38**

IPC 8 full level
C01B 32/60 (2017.01); **C01F 11/18** (2006.01); **C08K 3/00** (2006.01); **C08K 3/24** (2006.01); **C08K 3/26** (2006.01); **C09C 1/02** (2006.01); **C09C 3/00** (2006.01); **D21H 17/00** (2006.01); **D21H 17/67** (2006.01); **D21H 19/00** (2006.01); **D21H 19/38** (2006.01); **D21H 21/00** (2006.01)

CPC (source: EP KR US)
D21H 17/00 (2013.01 - EP US); **D21H 17/67** (2013.01 - KR); **D21H 17/675** (2013.01 - EP US); **D21H 19/38** (2013.01 - KR); **D21H 19/385** (2013.01 - EP US)

Cited by
US4888141A; EP0894836A1; US5989332A; EP0894833A3

Designated contracting state (EPC)
AT DE ES FR GB IT SE

DOCDB simple family (publication)
EP 0531685 A1 19930317; **EP 0531685 B1 19951213**; **EP 0531685 B2 20020904**; AT E131557 T1 19951215; AU 2086192 A 19930304; AU 657341 B2 19950309; DE 4128570 A1 19930304; DE 59204666 D1 19960125; ES 2083029 T3 19960401; ES 2083029 T5 20030301; JP H0657031 A 19940301; JP H0778147 B2 19950823; KR 930004585 A 19930322; KR 960006798 B1 19960523; MX 9204944 A 19930501; NZ 243684 A 19941125; US 5292365 A 19940308; US 5292365 B1 19961001

DOCDB simple family (application)
EP 92112697 A 19920724; AT 92112697 T 19920724; AU 2086192 A 19920806; DE 4128570 A 19910828; DE 59204666 T 19920724; ES 92112697 T 19920724; JP 22841092 A 19920827; KR 920015446 A 19920826; MX 9204944 A 19920827; NZ 24368492 A 19920723; US 93626992 A 19920827