

Title (en)  
HIGH GLOSS CALCIUM CARBONATE COATING COMPOSITIONS AND COATED PAPER AND PAPER BOARD MANUFACTURED FROM SAME

Title (de)  
HOCH-GLANZ-KALCIUMKARBONAT-BESCHICHTUNGSZUSAMMENSETZUNGEN UND BESCHICHTETES PAPIER UND KARTON DAMIT HERGESTELLT

Title (fr)  
COMPOSITIONS DE REVETEMENT A BRILLANT ELEVE, A BASE DE CARBONATE DE CALCIUM ; PAPIER COUCHE ET CARTON FABRIQUES A PARTIR DE CES COMPOSITIONS

Publication  
**EP 1456470 A1 20040915 (EN)**

Application  
**EP 01985091 A 20011220**

Priority  
US 0149721 W 20011220

Abstract (en)  
[origin: WO03054300A1] A paper coating pigment is provided which includes a blend of a first and a second discrete aragonitic precipitated calcium carbonate (PCC) particles. The first particles of the blended pigment have an average particle size (APS) of about 0.4 microns and the second particles of the blended pigment have an average particle size (APS) of about 0.5 microns. The blended pigment preferably includes a weight ratio of about 50:50 to about 80:20 with a 60:40 weight ratio being most preferred, respectively, of the first 0.4 micron particles to the second 0.5 micron particles. Also provided are a method for preparing coated paper, which includes preparing the blended aragonitic PCC pigment, adding a binder, and applying the pigment to the paper basestock in a slurry containing a binder and or additives. Preferably, blended aragonitic precipitated calcium carbonate pigment is present in an amount of from about 30 weight percent to about 85 weight percent of the mixture with about 70 weight percent to about 15 weight percent balance being clay prior to preparing the slurry.

IPC 1-7  
**D21H 19/38**; **D21H 23/22**

IPC 8 full level  
**D21H 19/38** (2006.01); **D21H 23/22** (2006.01); **D21H 19/40** (2006.01); **D21H 21/52** (2006.01)

CPC (source: EP)  
**D21H 19/38** (2013.01); **D21H 19/385** (2013.01); **D21H 19/40** (2013.01); **D21H 21/52** (2013.01)

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**WO 03054300 A1 20030703**; AR 037949 A1 20041222; AT E456702 T1 20100215; AU 2002234075 A1 20030709; AU 2002234075 B2 20080124; BR 0117205 A 20041214; CA 2470848 A1 20030703; CN 100350098 C 20071121; CN 1582357 A 20050216; DE 60141228 D1 20100318; EP 1456470 A1 20040915; EP 1456470 B1 20100127; IL 162520 A0 20051120; JP 2005513296 A 20050512; NO 20043070 L 20040719; NZ 534043 A 20051223; TW 581791 B 20040401

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