

Title (en)

Paper product prepared with structured latex particles having reinforcing and opacity characteristics and process for preparing the same.

Title (de)

Papierprodukt, hergestellt mit strukturierten Latexteilchen mit verstärkenden und opaken Eigenschaften und Verfahren zu seiner Herstellung.

Title (fr)

Produit papetier préparé avec des particules de latex structurées améliorant la solidité et l'opacité, et procédé de préparation.

Publication

**EP 0364629 A1 19900425 (EN)**

Application

**EP 88202356 A 19881021**

Priority

EP 88202356 A 19881021

Abstract (en)

This invention relates to a paper product, especially light weight papers, prepared with a structured latex particle having opacity and reinforcing characteristics comprising a core region having a light scattering characteristic and a Tg of 80 DEG C or higher and a shell region of 25 DEG C or lower. The structured latex particle provides opacity to the paper without adversely affecting its mechanical strength.

IPC 1-7

**D21H 17/35**; **D21H 17/43**; **D21H 21/14**

IPC 8 full level

**D21H 21/28** (2006.01); **D21H 17/35** (2006.01); **D21H 17/43** (2006.01); **D21H 21/18** (2006.01); **D21H 21/22** (2006.01)

CPC (source: EP)

**D21H 21/28** (2013.01); **D21H 17/35** (2013.01); **D21H 17/43** (2013.01); **D21H 21/18** (2013.01); **D21H 21/22** (2013.01)

Citation (search report)

- [Y] US 3897300 A 19750729 - KOHNE JR HARRY F, et al
- [Y] US 4613633 A 19860923 - SEKIYA MASAYOSHI [JP], et al
- [A] US 4282060 A 19810804 - MASLANKA WILLIAM W, et al
- [A] TAPPI, vol. 64, no. 4, April 1981, pages 135-136, Atlanta, Georgia, US; B. ALINCE et al.: "Light-scattering of filled sheets: The combined effect of pigment size and fiber debonding"

Cited by

EP0764741A3; EP0753530A3; US5925704A; EP0959176A1; WO2013122756A1; US9206552B2; JPH11349839A

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI SE

DOCDB simple family (publication)

**EP 0364629 A1 19900425**; **EP 0364629 B1 19940223**; AT E101887 T1 19940315; DE 3887988 D1 19940331

DOCDB simple family (application)

**EP 88202356 A 19881021**; AT 88202356 T 19881021; DE 3887988 T 19881021