

Title (en)

Process for the preparation of paper and paper obtained therefrom.

Title (de)

Verfahren zur Herstellung von Papier und daraus hergestelltes Papier.

Title (fr)

Procédé de fabrication de papier et papier ainsi obtenu.

Publication

EP 0522940 A1 19930113 (FR)

Application

EP 92401913 A 19920703

Priority

FR 9108819 A 19910712

Abstract (en)

Process for the manufacture of paper, characterised in that the following are added to the fibrous composition entering the flow box: a) an inorganic filler, b) an adhesion promoter, and c) a retaining system consisting of: c)1) cationic starch, c)2) aluminium polychloride, and c)3) silica of anionic nature. The products c)1), c)2) and c)3) have the following respective weight percentages on a weight basis in relation to the weight of the composition entering the flow box: 0.15 to 1.7 %, 0.05 to 0.25 % expressed as percentage of Al₂O₃, and 0.01 to 0.3 % expressed as percentage of SiO₂. The cationic starch has a molecular weight of 3x10⁴ to 12x10⁴ and a degree of substitution of 0.01 to 0.1.

Abstract (fr)

Le Procédé de fabrication de papier est caractérisé en ce que l'on ajoute à la composition fibreuse entrant en caisse de tête: a) une charge minérale, b) un agent de collage, et c) un système rétenteur constitué de: c)1) amidon cationique, c)2) polychlorure d'aluminium, et c)3) silice à caractère anionique Les produits c)1), c)2) et c)3) présentent en poids, par rapport au poids de la composition entrant en caisse de tête, les pourcentages pondéraux respectifs suivants: 0,15 à 1,7%, 0,05 à 0,25% exprimé en pourcentage d'Al₂O₃, et 0,01 à 0,3% exprimé en pourcentage de SiO₂. L'amidon cationique présente un poids moléculaire de 3.10⁴ à 12.10⁴ et un degré de substitution de 0,01 à 0,1.

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Cited by

US5891305A; EP0683267A3; EP2322714A1; US6074530A; ES2132011A1; EP0608986A1; US5501774A; US2011247773A1; US8308903B2; US9365979B2; US8888957B2; WO2016032831A1; WO2007078245A1; US9139958B2; US10982391B2; EP0786476A1; US8273216B2; US7955473B2; US8790493B2; US9562327B2

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