

Title (en)

COLLOIDS TO INCREASE COEFFICIENT OF FRICTION IN CARBONLESS PAPER PAD COATINGS

Publication

EP 0569285 A3 19940601 (EN)

Application

EP 93401145 A 19930504

Priority

- US 1979593 A 19930219
- US 87804892 A 19920504

Abstract (en)

[origin: EP0569285A2] A composition suitable for use as a pad-coat or release coating for carbonless paper constructions, the composition containing about: (a) 0.1-10.0 weight percent inorganic colloid having a particle size in the range of about 1-125 nm; (b) 0.1-5.0 weight percent abherent material; (c) 60.0-99.9 weight percent water; and (d) 0-25 weight percent binder, based upon the total weight of the coating composition. In a preferred embodiment, colloidal silica is utilized. Also disclosed is a carbonless paper construction with at least a portion of at least one outer surface having the inventive pad-coat or release coating applied thereto. The incorporation of inorganic colloidal particles into carbonless paper pad-coats results in an increase in the coefficient of friction of the pad coated surface; increase in toner adhesion and ink receptivity of the pad-coated surface; promotes uniform feeding of carbonless paper sheets into photocopiers and printing presses by reducing misfeeds and double feeds; and reduces feeder induced smudging. It does this without loss of the abhesive release effect provided by the pad-coat and without loss of the fan-out ability to produce form-sets. <IMAGE>

IPC 1-7

B41M 5/124; **D21H 27/00**; **D21H 19/40**; **G03G 7/00**

IPC 8 full level

B41M 5/155 (2006.01); **B41M 5/124** (2006.01)

CPC (source: EP)

B41M 5/124 (2013.01)

Citation (search report)

- [YD] US 5092927 A 19920303 - CURTI PATRICIA D [US], et al
- [A] US 3949148 A 19760406 - AKMAN ALPTEKIN
- [A] US 3738957 A 19730612 - ILER R
- [Y] DATABASE WPI Week 8328, Derwent World Patents Index; AN 83-709071 & PATENT ABSTRACTS OF JAPAN vol. 7, no. 196 (P - 219)<1341> 26 August 1983 (1983-08-26)
- [A] A.T.AKMAN ET AL: "improved transfer paper", XEROX DISCLOSURE JOURNAL, vol. 5, no. 4, August 1980 (1980-08-01), STAMFORD, CONN US, pages 467

Cited by

US5991588A; EP1960601B2

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 0569285 A2 19931110; **EP 0569285 A3 19940601**; **EP 0569285 B1 19970730**; CA 2094004 A1 19931105; DE 69312564 D1 19970904; DE 69312564 T2 19980205; JP H0648022 A 19940222

DOCDB simple family (application)

EP 93401145 A 19930504; CA 2094004 A 19930414; DE 69312564 T 19930504; JP 10532493 A 19930506