

Title (en)

Colloids to increase coefficient of friction in carbonless paper pad coatings.

Title (de)

Kolloide zur Steigerung des Reibungskoeffizienten von Beschichtungen auf Blocken kohlefreien Papiers.

Title (fr)

Colloïdes pour augmenter le coefficient de friction des revêtements sur blocs de papier sans carbone.

Publication

EP 0569285 A2 19931110 (EN)

Application

EP 93401145 A 19930504

Priority

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- US 87804892 A 19920504

Abstract (en)

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 adherent 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>

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