

Title (en)
IMPROVED DEINKING METHOD USING INK AGGLOMERATION

Title (de)
VERBESSERTES DEINKING-VERFAHREN DURCH TINTEN-AGLLOMERATION

Title (fr)
PROCEDE PERFECTIONNE DE DESENCRAGE PAR AGGLOMERATION DE L'ENCRE

Publication
EP 0712452 A4 19990421 (EN)

Application
EP 94924565 A 19940802

Priority
• US 9408774 W 19940802
• US 10088693 A 19930802

Abstract (en)
[origin: WO9504187A1] Deinking of printed paper is accomplished by defibering printed wastepaper (1) to produce a pulp medium and contacting the pulp medium with an aqueous medium containing a deinking chemical (2) wherein the presence of the deinking chemical causes agglomeration of ink particles to produce an ink pulp medium. Agglomerated ink particles are removed from the ink pulp medium by size (3) and density (4) separation procedures to produce a substantially ink-free pulp medium. The invention provides improved deinking processes with high ink removal from printed paper by more effective agglomeration of ink particles through separation of defibering and agglomeration actions which are subject to different chemical and physical requirements.

IPC 1-7
D21C 5/02

IPC 8 full level
D21C 5/02 (2006.01)

CPC (source: EP)
D21C 5/025 (2013.01); **Y02W 30/64** (2015.05)

Citation (search report)
• [Y] EP 0510954 A1 19921028 - BETZ EUROP INC [US]
• [Y] WO 9307331 A1 19930415 - INT PAPER CO [US]
• See references of WO 9504187A1

Designated contracting state (EPC)
DE ES FR GB IT NL SE

DOCDB simple family (publication)
WO 9504187 A1 19950209; AU 7479994 A 19950228; CA 2168578 A1 19950209; EP 0712452 A1 19960522; EP 0712452 A4 19990421

DOCDB simple family (application)
US 9408774 W 19940802; AU 7479994 A 19940802; CA 2168578 A 19940802; EP 94924565 A 19940802