

Title (en)  
METHOD AND APPARATUS FOR DEINKING PAPER

Title (de)  
VERFAHREN UND VORRICHTUNG ZUM DEINKEN VON PAPIER

Title (fr)  
PROCEDE ET DISPOSITIF DE DESENCRAGE DU PAPIER

Publication  
**EP 1068389 A1 20010117 (EN)**

Application  
**EP 99912774 A 19990319**

Priority  
• US 9906181 W 19990319  
• US 4433498 A 19980319

Abstract (en)  
[origin: WO9947743A1] Deinking a sheet of paper by removing toner thereon including wetting the sheet of paper with a non-toxic, water soluble deinking solution which comprises water, for wetting the sheet of paper to swell the fibers of the sheet, a water soluble surfactant for lowering the surface tension of the water to enhance wetting of the sheet with the water, and no more than two water soluble solvents for softening the toner, without dissolving the toner, and for breaking the bond between the toner and the sheet; removing the softened toner from the sheet, creating toner particles; heating the sheet to vaporize the deinking solution, removing the solution from the sheet; and calendering the sheet of paper to return the sheet to the predetermined dimensions for immediate reuse.

IPC 1-7  
**D21C 5/02**; **B08B 3/08**

IPC 8 full level  
**B08B 3/08** (2006.01); **D21C 5/02** (2006.01); **D21H 11/14** (2006.01); **G03G 21/00** (2006.01)

CPC (source: EP KR)  
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See references of WO 9947743A1

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