

Title (en)

SYSTEM FOR TREATING MATERIALS FOR SEPARATION

Title (de)

BEHANDLUNGSSYSTEM FÜR ZU TRENNENDE MATERIALIEN

Title (fr)

SYSTEME DE TRAITEMENT DE MATERIAUX EN VUE DE LEUR SEPARATION

Publication

EP 1181109 A4 20060315 (EN)

Application

EP 99939865 A 19990823

Priority

- AU 9900677 W 19990823
- AU PP537198 A 19980821

Abstract (en)

[origin: WO0010738A1] A system (10) is provided for treating a mixture (12) containing desired materials (14) and contaminating plastic materials (16) for separation at a subsequent material processing stage. The system (10) comprises a treatment station (18), guiding means (24, 25, 30) for guiding the mixture (12) into the treatment station (18), and heating means (20) for heating a fluid medium flowing in said treatment station (18). The heating means (20) is arranged so that the mixture (12) at said treatment station (18) is heated to a temperature within a predetermined temperature range below melting points of the plastic materials. When heated to that temperature and exposed in the treatment station (18) within a predetermined time period the contaminating plastic materials (16) change their physical characteristics to a form allowing separation a the subsequent material processing stage. The system is particularly useful for removing plastic fibers from natural fibers such as wool, cotton or silk.

IPC 1-7

B07B 13/00; **B07B 15/00**; **D01B 3/00**; **D01B 9/00**; **D01G 9/00**; **D01G 37/00**

IPC 8 full level

B03B 1/02 (2006.01); **B07B 13/00** (2006.01); **B29B 17/02** (2006.01); **D01B 3/00** (2006.01); **D01B 9/00** (2006.01); **D01G 9/00** (2006.01); **D01G 13/00** (2006.01); **D01G 15/94** (2006.01); **D01G 31/00** (2006.01); **D01G 37/00** (2006.01); **D01G 99/00** (2010.01); **D06B 3/02** (2006.01); **D06L 1/00** (2006.01)

CPC (source: EP KR)

B03B 1/02 (2013.01 - EP KR); **B07B 13/003** (2013.01 - EP KR); **B29B 17/02** (2013.01 - EP KR); **D01B 3/00** (2013.01 - EP KR); **D01B 9/00** (2013.01 - EP KR); **D01G 9/00** (2013.01 - EP KR); **D01G 13/00** (2013.01 - EP KR); **D01G 31/003** (2013.01 - EP KR); **D01G 99/00** (2013.01 - EP KR); **B29K 2023/06** (2013.01 - EP KR); **B29K 2023/12** (2013.01 - EP); **B29K 2313/00** (2013.01 - EP); **B29L 2031/726** (2013.01 - EP); **Y02W 30/62** (2015.05 - EP)

Citation (search report)

- [A] US 5303826 A 19940419 - BUZGA HEINRICH [DE]
- See references of WO 0010738A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0010738 A1 20000302; AU PP537198 A0 19980910; EP 1181109 A1 20020227; EP 1181109 A4 20060315; ID 29802 A 20011011; JP 2002523220 A 20020730; KR 20010079667 A 20010822; NZ 510607 A 20030131

DOCDB simple family (application)

AU 9900677 W 19990823; AU PP537198 A 19980821; EP 99939865 A 19990823; ID 20010412 A 19990823; JP 2000566046 A 19990823; KR 20017002160 A 20010220; NZ 51060799 A 19990823