

Title (en)
SYSTEM AND METHOD FOR RECYCLING MATERIALS

Title (de)
SYSTEM UND VERFAHREN ZUR WIEDERVERWENDUNG VON MATERIALIEN

Title (fr)
SYSTEME ET PROCEDE DE RECYCLAGE DE MATERIAUX

Publication
EP 0688372 A1 19951227 (EN)

Application
EP 93910588 A 19930412

Priority
• US 2989893 A 19930311
• US 9303445 W 19930412

Abstract (en)
[origin: CA2095979A1] SYSTEM AND METHOD FOR RECYCLING MATERIALS First and second washing machines (13, 15) are utilized to clean plastic (87) and cellulose (53) from disposed diapers (49) for recycling. The disposed diapers (49) are loaded into the first washing machine (13) and, while being agitated by rotation of a basket (37) and by air supplied by a blower (23), are washed in water, alkali and soap. During washing, the cellulose becomes separated from the plastic. The cellulose is drained out of the first washing machine with the water, leaving the plastic in the first washing machine. The plastic is then cleaned in the first washing machine. A pump (17) transfers the cellulose and water to the second washing machine (15). In the second washing machine, the cellulose is washed in alkali and soap while being agitated. The second washing machine has a screen (48) for retaining the cellulose therein, while passing the water and waste material. Wood pulp goods, rubber, glass and plastic are other materials that can be processed and cleaned for recycling purposes.

IPC 1-7
D21B 1/08; D21C 9/08; D21C 9/02; B01D 33/00; B01D 33/15; B08B 7/00; D06B 3/00

IPC 8 full level
B08B 3/04 (2006.01); **B03B 5/00** (2006.01); **B03B 9/06** (2006.01); **B09B 3/00** (2006.01); **B09B 5/00** (2006.01); **B29B 17/00** (2006.01); **B29B 17/02** (2006.01); **D21B 1/02** (2006.01); **D21B 1/16** (2006.01); **D21B 1/32** (2006.01); **D21C 5/02** (2006.01)

CPC (source: EP KR)
B03B 9/06 (2013.01 - KR); **B03B 9/061** (2013.01 - EP); **B29B 17/02** (2013.01 - EP KR); **D21B 1/026** (2013.01 - EP); **D21B 1/26** (2013.01 - KR); **B29B 2017/0289** (2013.01 - EP KR); **B29K 2021/00** (2013.01 - EP KR); **B29K 2105/065** (2013.01 - EP KR); **B29K 2705/00** (2013.01 - EP KR); **B29K 2711/12** (2013.01 - EP KR); **B29L 2030/00** (2013.01 - EP KR); **B29L 2031/4878** (2013.01 - EP KR); **Y02W 30/62** (2015.05 - EP); **Y02W 30/82** (2015.05 - EP KR)

Cited by
CN110899294A

Designated contracting state (EPC)
AT BE CH DE ES FR GB IT LI NL PT SE

DOCDB simple family (publication)
DE 4322349 A1 19940915; AU 4102393 A 19940926; AU 681847 B2 19970911; BR 9307821 A 19951114; CA 2095979 A1 19940912; EP 0688372 A1 19951227; EP 0688372 A4 19960508; FI 954206 A0 19950908; FI 954206 A 19951108; JP H06269746 A 19940927; JP H08509782 A 19961015; KR 100310601 B1 20011228; KR 960701258 A 19960224; NO 953513 D0 19950907; NO 953513 L 19951110; WO 9420668 A1 19940915

DOCDB simple family (application)
DE 4322349 A 19930705; AU 4102393 A 19930412; BR 9307821 A 19930412; CA 2095979 A 19930511; EP 93910588 A 19930412; FI 954206 A 19950908; JP 17363193 A 19930622; JP 51992994 A 19930412; KR 19950703803 A 19950907; NO 953513 A 19950907; US 9303445 W 19930412