

Title (en)

System for recovery of salvageable ferrous and non-ferrous metal components from incinerated waste materials.

Title (de)

Anlage zur Wiedergewinnung verwertbarer Eisen- und Nichteisenmetallkomponenten aus verbrannten Abfällen.

Title (fr)

Installation pour la récupération de composants métalliques valorisables, ferreux et non ferreux à partir de déchets incinérés.

Publication

EP 0220853 A2 19870506 (EN)

Application

EP 86307640 A 19861003

Priority

- CA 616850 A 19940331
- US 79081885 A 19851024

Abstract (en)

The present invention pertains to a system for recovering salvageable and non-ferrous materials from incinerated waste materials including friable, carbonaceous incineration byproducts such as ash, and associated ferrous metal and aluminum and other non-ferrous metal components comprising first crushing means (4) for selectively comminuting carbonaceous incineration byproducts without comminuting associated ferrous and non-ferrous metal components; first separating means (6) coacting with said first crushing means (4) for selectively separating comminuted carbonaceous incineration byproducts from ferrous and non-ferrous metal components; and first magnetic means (11) for separating ferrous metal components from non-ferrous metal components. The present invention further relates to a method for recovery of ferrous and non-ferrous metal components from incinerated waste materials using the system of the present invention and to a novel crusher for selectively comminuting friable materials without comminuting malleable materials.

IPC 1-7

B03B 9/04; B07B 9/00

IPC 8 full level

C22B 1/00 (2006.01); **B02C 4/12** (2006.01); **B03B 1/00** (2006.01); **B03B 9/04** (2006.01); **B07B 9/00** (2006.01); **B09B 5/00** (2006.01); **C22B 7/00** (2006.01)

CPC (source: EP)

B02C 4/12 (2013.01); **B03B 1/00** (2013.01); **B03B 9/04** (2013.01); **B07B 9/00** (2013.01)

Cited by

US5632380A; DE19527382A1; DE4306781A1; EP0440993A1; DE19536374C1; EP0765686A3; DE19529208A1; CN109331977A

Designated contracting state (EPC)

CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0220853 A2 19870506; EP 0220853 A3 19890816; EP 0220853 B1 19931222; CA 1269355 A 19900522; CA 1340476 C 19990330; DE 3689440 D1 19940203; DE 3689440 T2 19940511; JP S62164835 A 19870721

DOCDB simple family (application)

EP 86307640 A 19861003; CA 519549 A 19861001; CA 616850 A 19940331; DE 3689440 T 19861003; JP 25354686 A 19861024