

Title (en)
PROCESS AND APPARATUS FOR CONVERTING SPENT POTLINERS INTO A GLASS FRIT, AND RESULTING PRODUCTS

Title (de)
VERFAHREN UND VORRICHTUNG ZUR UMWANDLUNG VON AUSKLEIDUNGEN IN EINE GLASFRICTE UND RESULTIERENDE PRODUKTE

Title (fr)
PROCEDE ET APPAREIL PERMETTANT DE TRANSFORMER DES BRASQUES USEES EN FRITTE DE VERRE ET PRODUITS AINSI OBTENUS

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EP 1853529 A1 20071114 (EN)

Application
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Priority
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Abstract (en)
[origin: WO2006086868A1] A pyrometallurgical process and apparatus for converting spent potliners from aluminium manufacturing or other hazardous materials into an amorphous sodium and calcium fluoroaluminosilicate glass frit and high carbon material. Spent potliners, silica or siliceous material, and a calcium oxide source are fed into the non-burner end of a counter-current rotating kiln. The material is heated to destroy cyanides, convert fluoride salts to calcium fluoride and form a homogeneous liquid material. Carbon is then physically separated from the material. The material is then vitrified to produce a valuable glass frit and a high carbon material.

IPC 8 full level
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