

Title (en)
CHEMICAL PRETREATMENT AND PREHEATING OF STEEL SCRAP

Title (de)
CHEMISCHE VORBEHANDLUNG UND VORWÄRMUNG VON STAHLSCHROTT

Title (fr)
PRÉTRAITEMENT CHIMIQUE ET PRÉCHAUFFAGE DE FERRAILLE D'ACIER

Publication
EP 2569455 A1 20130320 (DE)

Application
EP 10720547 A 20100510

Priority
EP 2010002868 W 20100510

Abstract (en)
[origin: WO2011141036A1] The invention relates to a method for reprocessing steel scrap, wherein the steel scrap is preheated with the aid of exhaust gases arising in a melting furnace. In order to prevent dioxins, furans, or other problematic organic substances from forming in the exhaust gases during the preheating of the steel scrap, the steel scrap is pretreated before the preheating by introducing the steel scrap into an alkaline and/or acidic solution. At the same time, the components of the steel scrap responsible for the formation of dioxins and furans in the exhaust gas are removed.

IPC 8 full level
C21C 5/52 (2006.01); **C21C 5/56** (2006.01); **C22B 1/00** (2006.01); **C22B 7/00** (2006.01); **C22B 19/30** (2006.01); **C25C 1/16** (2006.01)

CPC (source: EP)
C21C 5/527 (2013.01); **C21C 5/565** (2013.01); **C22B 1/005** (2013.01); **C22B 7/006** (2013.01); **C22B 19/30** (2013.01); **G01D 11/30** (2013.01); **Y02P 10/134** (2015.11); **Y02P 10/20** (2015.11)

Citation (search report)
See references of WO 2011141036A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011141036 A1 20111117; EP 2569455 A1 20130320

DOCDB simple family (application)
EP 2010002868 W 20100510; EP 10720547 A 20100510