

Title (en)
METHOD FOR CLEANING EXHAUST GASES PRODUCED BY A SINTERING PROCESS FOR ORES AND/OR OTHER METAL-CONTAINING MATERIALS IN METAL PRODUCTION

Title (de)
VERFAHREN ZUM REINIGEN VON ABGASEN EINES SINTERPROZESSES VON ERZEN UND/ODER ANDEREN METALLHALTIGEN MATERIALIEN IN DER METALLERZEUGUNG

Title (fr)
PROCEDE POUR PURIFIER DES GAZ D'ECHAPPEMENT PROVENANT D'UN PROCESSUS DE FRITTAGE DE MINERAIS ET/OU D'AUTRES MATIERES CONTENANT DES METAUX, DANS LE CADRE DE LA PRODUCTION DE METAUX

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Application
EP 06706727 A 20060208

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Abstract (en)
[origin: WO2006084671A1] The invention relates to a method for cleaning exhaust gases produced by an ore sintering process in metal production consisting in mixing ores, possibly associated with other metal-containing materials, with a solid fuel, in sintering said materials by simultaneously combusting said solid fuel and in carrying out a distillation process in such a way that NO_x is removed and the effects of other aggressive components, in particular SO₂, on a catalyst are limited or removed at a large degree. For this purpose, the sintering exhaust gases are substantially freed from the aggressive substances in a moving-bed reactor by bringing into contact at least one adsorption and/or absorption agent in the same single moving bed in at least two steps in such a way that at least one aggressive gas substance SO₂, HCl, condensable residues, heavy metals and possibly potassium and/or sodium compounds are bound by absorption or adsorption, to a directly connected flow area and possibly to an adjacent lower layer of the moving bed and to particulate components adhered thereto. According to said invention, a nitrogen and possibly gas substances such as dioxins or furans are substantially removed in the area adjacent to the directly adjacent flow area and possibly to the adjacent lower layer of the moving bed.

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Citation (search report)
See references of WO 2006084671A1

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JP 2001252533 A 20010918 - SUMITOMO HEAVY INDUSTRIES

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