

Title (en)
PROCESS FOR REUSING DUSTS FROM METALLURGICAL PROCESSES, SUCH AS STEEL CONVERTER DUSTS CONTAINING ZINC

Title (de)
VERFAHREN ZUM VERWERTEN VON BEI METALLURGISCHEN PROZESSEN ANFALLENDEN STÄUBEN WIE ZINK ENTHALTENDEN STAHLKONVERTERSTÄUBEN

Title (fr)
PROCEDE DE VALORISATION DE POUSSIÈRES PRODUITES LORS DE PROCESSUS METALLURGIQUES, TELLES QUE DES POUSSIÈRES DE CONVERTISSEUR D'ACIERIE CONTENANT DU ZINC

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Application
EP 97929014 A 19970707

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Abstract (en)
[origin: WO9801590A1] To avoid concentration of undesired metals and other associated elements in a metallurgical process and, nevertheless, to guarantee high yield of the product produced with the metallurgical process, the following procedures are used for recycling dusts which arise during the metallurgical process: the dusts are analyzed for their content of at least one metal undesirable for the metallurgical process, particularly zinc for steel production; if the threshold value of the metal is exceeded, at least a portion of the dusts with analysis values exceeding the threshold is separated from dusts with analysis values below the threshold; the separated dusts are subjected to a concentration treatment at least with regard to the analyzed metal, wherein a portion of the separated dusts with a high content of the analyzed metal and a portion with a content below the threshold is formed, and the portion with a low content of the analyzed metal dusts is fed into the metallurgical process and the portion with a high content of the analyzed metal dusts is fed into the process for reuse of this metal. A plant for carrying out this process consists of a metallurgical container (1), an exhaust gas cleaning device (2, 3), an analytic device (4) for measuring the zinc content, a separating device (5) for separating the dusts, a treatment device (11) for concentrating zinc, a conveyance device (14) for returning the treated dusts, and a return system (6) with a compacting device (6') for returning the untreated dusts.

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