

Title (en)  
METHOD FOR INCREASING THE DRY RESIDUE IN PROCESSED CYCLONE DUST

Title (de)  
VERFAHREN ZUR ERHÖHUNG DES TROCKENRÜCKSTANDES BEI NASS AUFGEARBEITETEM ZYKLONSTAUB DER CHLORIERUNG VON TITANERZ

Title (fr)  
PROCEDE POUR AUGMENTER LE RESIDU SEC DANS DE LA POUSSIÈRE DE RECUPERATION SEPARÉE PAR CYCLONE

Publication  
**EP 1368503 A2 20031210 (DE)**

Application  
**EP 02727201 A 20020308**

Priority  
• DE 0200844 W 20020308  
• DE 10111895 A 20010313

Abstract (en)  
[origin: WO02072205A2] During processing of cyclone dust resulting from the chlorination of titanium ore, a disposable filter cake having a dry residue of greater than 40 % (without inert portions serving as a supporting structure), regardless of whether ilmenite, slag or natural or artificial rutile or mixtures therefrom were used as a raw material, is obtained when one or a combination of the following method steps is carried out: before increasing to a pH value ranging from 9 to 12, a rapid neutralization step is conducted whereby for all volume elements of the liquid, the same precipitation conditions can be maintained in a pH range of 6 to 9; a (preferably anionic) flocculation aid is added before thickening, and; a (preferably cationic) flocculation aid is mixed into the slurry after thickening. All measures improve the flocculation and render the processing more economical.  
[origin: WO02072205A2] During processing of cyclone dust (4) resulting from the chlorination of titanium ore, a disposable filter cake (26) having a dry residue of greater than 40 % (without inert portions serving as a supporting structure), regardless of whether ilmenite, slag or natural or artificial rutile or mixtures thereof were used as a raw material, is obtained when one or a combination of the following method steps is carried out: before increasing to a pH value ranging from 9 to 12 in a neutralization tank (13), a rapid neutralization step (12) is conducted whereby for all volume elements of the liquid, the same precipitation conditions can be maintained in a pH range of 6 to 9; a (preferably anionic) flocculation aid (22) is added before thickening, and; a (preferably cationic) second flocculation aid is mixed into the slurry after thickening. All measures improve the flocculation and render the processing more economical.

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**C22B 34/12**

IPC 8 full level  
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CPC (source: EP US)  
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