

Title (en)  
DEVICE FOR WITHDRAWING LUMPY MATERIAL

Title (de)  
VORRICHTUNG ZUM AUSTRAGEN VON STÜCKIGEM GUT

Title (fr)  
DISPOSITIF POUR RETIRER UNE CHARGE ISOLEE

Publication  
**EP 1029087 A1 20000823 (DE)**

Application  
**EP 98956875 A 19981026**

Priority  
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Abstract (en)  
[origin: WO9925881A1] The invention relates to a device for withdrawing lumpy material, especially lumpy material containing iron oxide and/or sponge iron, from a shaft furnace, especially a direct reduction shaft furnace. The withdrawal device consists of worm conveyors which protrude into the shaft furnace over the floor of the same. A number of worm conveyors are aligned along axes. The projection of said axes onto the horizontal cross-sectional surface of the shaft furnace or the imaginary extensions of the projection of the axes forms secants of the horizontal cross-sectional surface of the shaft furnace. Said axes extend at a distance from the central point of the cross section of the furnace.

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**C21B 13/02**; **F27D 3/08**

IPC 8 full level  
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