

Title (en)  
METHOD FOR OBTAINING VANADIUM SLAG.

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON VANADIUMSCHLACKE.

Title (fr)  
PROCEDE POUR L'OBTENTION DE LAITIER DE VANADIUM.

Publication  
**EP 0235291 A4 19880120 (DE)**

Application  
**EP 86900680 A 19850822**

Priority  
SU 8500072 W 19850822

Abstract (en)  
[origin: WO8701136A1] The vanadium slag contains the following components in per cent by weight: vanadium oxide 16-30, silicon oxide 10-24, manganese oxide 6-14, chromium oxide 1-12, titanium oxide 6-14, calcium oxide 0.3-30.0, metallic iron 2-20, iron oxide as the balance and has the following mineral composition in per cent by weight: spinellid 40-70; glass 2-10; pyroxenes and olivines representing balance. The grains of spinellid have a regular geometric shape and measure 25-80  $\mu\text{m}$ . The method of obtaining the vanadium slag of the composition mentioned provides for the use of vanadium cast iron containing, in per cent by weight: vanadium 0.35-0.90, carbon 3.8-4.8, silicon 0.05-0.35, manganese 0.12-0.35, titanium 0.07-0.38, chromium 0.03-0.42, phosphorus 0.02-0.10, copper 0.04-0.32, nickel 0.04-0.32, cobalt 0.001-0.12, iron being the balance. The above-named cast iron is blown through with a gaseous oxidizer, such as oxygen, at a blast intensity of 1.5-3.0  $\text{m}^3/\text{t}\cdot\text{min}$ , at a temperature of the cast iron at the beginning of blowing from 1,180 to 1,300°C and at the end of blowing from 1,400 to 1,650°C and with a specific area of the bath surface equal to 0.13 to 0.30  $\text{m}^2/\text{t}$ .

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**C21C 5/36**

IPC 8 full level  
**C21C 5/36** (2006.01)

CPC (source: EP)  
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Citation (search report)  
• [A] DE 2810458 A1 19790920 - N PROIZV OB TULATSCHERMET  
• [A] DE 2509650 A1 19760916 - TSNII TSCHERNOJ METALLURG IM I  
• [A] FR 1598744 A 19700706  
• [A] DE 3006287 A1 19811008 - SALZGITTER PEINE STAHLWERKE [DE]

Cited by  
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**WO 8701136 A1 19870226**; DE 3575949 D1 19900315; EP 0235291 A1 19870909; EP 0235291 A4 19880120; EP 0235291 B1 19900207; JP S63500873 A 19880331

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