

Title (en)  
UPGRADING TITANIFEROUS MATERIALS.

Title (de)  
AUFBEREITUNG TITANHALTIGER MATERIALIEN.

Title (fr)  
AMELIORATION DE MATERIAUX TITANIFERES.

Publication  
**EP 0658214 A4 19960703 (EN)**

Application  
**EP 93917451 A 19930812**

Priority  
• AU 9300414 W 19930812  
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• AU PL719393 A 19930210

Abstract (en)  
[origin: US2002104406A1] The application discloses a process for upgrading a titaniferous material by removal of impurities contained in the material especially radionuclides. The process involves heating the titaniferous material to a temperature of less than 1300° C. to form a solid titaniferous phase and a liquid oxide or glassy phase in the presence of a material that promotes the formations of such phases, cooling the product at a rate that maintains the glassy phase in an amorphous state and leaching the solidified material with an acid or an alkali to remove the impurities. Materials that promote the formation of the desired phases include compounds of alkali metals and boron. Examples include borax, caustic soda, soda ash and silica.

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**C22B 1/00**; **C22B 1/02**

IPC 8 full level  
**C22B 1/02** (2006.01); **C22B 1/243** (2006.01); **C22B 3/10** (2006.01); **C22B 34/12** (2006.01)

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Citation (search report)  
• [X] US 4759916 A 19880726 - HEIKEL HENRIK R [US]  
• [X] EP 0243725 A2 19871104 - DU PONT [US] & AU 7097687 B  
• [X] FR 1017792 A 19521218 - NAT TITANIUM PIGMENTS LTD  
• [A] FR 2187917 A1 19740118 - GOMES JOHN [US]  
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• See references of WO 9404709A1

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