

Title (en)

A flow process for chlorinating ferruginous titaniferous material.

Title (de)

Strömungsverfahren zur Chlorierung von eisen-und titanhaltigem Material.

Title (fr)

Procédé en écoulement pour la chloration de matériau titanifère ferrugineux.

Publication

EP 0000498 A1 19790207 (EN)

Application

EP 78100363 A 19780711

Priority

- US 81758777 A 19770721
- US 81771977 A 19770721
- US 88544278 A 19780310

Abstract (en)

Ferruginous titaniferous material having an iron to titanium molar ratio Fe/Ti of n:1, n being at least about 0.25 is chlorinated in the presence of carbonaceous reductants with not more than $x + 2$ moles of chlorine per gram atom of titanium, in a laminar flow at about 1050-1950 DEG C. The atomic ratio of carbon in the mixture to the oxygen content is greater than 1:1. A product stream of titanium chlorides and by-product metallic iron is withdrawn. In a preferred operational mode the reaction zone is followed by a hot separation zone and a cool separation zone.

IPC 1-7

C01G 23/02; **C22B 1/08**; **C22B 1/10**; **C22B 34/12**

IPC 8 full level

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Citation (search report)

- FR 2286881 A1 19760430 - OTHMER DONALD [US]
- [A] FR 2208985 A1 19740628 - DU PONT [US]

Cited by

EP0125259A4; EP0029699A1; EP0005018A1; US5660805A; EP0034434A1; EP0105542A1; EP4086228A1; EP0035196B1; WO2022233639A1

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