

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 A product stream of titanium chlorides and by-product metallic iron is withdrawn.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

**C22B 34/12** (2006.01); **C01G 23/02** (2006.01)

CPC (source: EP)

**C22B 34/1222** (2013.01)

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

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0000498 A1 19790207**; **EP 0000498 B1 19811021**; CA 1096177 A 19810224; DE 2861188 D1 19811224; IT 1105937 B 19851111; IT 7850432 A0 19780721; JP S5435195 A 19790315

DOCDB simple family (application)

**EP 78100363 A 19780711**; CA 305668 A 19780616; DE 2861188 T 19780711; IT 5043278 A 19780721; JP 8218178 A 19780707