

Title (en)

RECOVERY OF VANADIUM FROM SLAG MATERIALS

Title (de)

RÜCKGEWINNUNG VON VANADIUM AUS SCHLACKENMATERIALIEN

Title (fr)

RÉCUPÉRATION DE VANADIUM À PARTIR DE MATÉRIAUX DE SCORIES

Publication

EP 4077751 A1 20221026 (EN)

Application

EP 20901538 A 20201208

Priority

- AU 2019904837 A 20191219
- AU 2020051337 W 20201208

Abstract (en)

[origin: WO2021119728A1] A method for the recovery of vanadium from a vanadium containing feed stream, the method comprises: subjecting the vanadium containing feed stream to an acid leach step to form a slurry including a pregnant leach solution that comprises dissolved vanadium and a solid residue; passing the product of the leach step to a solid/liquid separation step to produce a pregnant leach solution that comprises dissolved vanadium; contacting the pregnant leach solution with a reducing agent to reduce one or more species in the pregnant leach solution; passing the pregnant leach solution to a precipitation step in which the solution pH is increased to precipitate a vanadium product; and recovering the vanadium product from the solution.

IPC 8 full level

C22B 34/22 (2006.01); **C01G 31/00** (2006.01); **C22B 3/44** (2006.01)

CPC (source: AU EP)

C22B 3/08 (2013.01 - EP); **C22B 3/44** (2013.01 - AU EP); **C22B 7/04** (2013.01 - AU EP); **C22B 34/22** (2013.01 - AU EP); **C22B 3/06** (2013.01 - AU); **C22B 34/124** (2013.01 - AU); **Y02P 10/20** (2015.11 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021119728 A1 20210624; AU 2020408368 A1 20220602; CL 2022001643 A1 20230410; CN 115427592 A 20221202; EP 4077751 A1 20221026; EP 4077751 A4 20240124

DOCDB simple family (application)

AU 2020051337 W 20201208; AU 2020408368 A 20201208; CL 2022001643 A 20220616; CN 202080088812 A 20201208; EP 20901538 A 20201208