

Title (en)

METAL PHOSPHATE CONTAINING MANGANESE AND METHOD FOR ITS PRODUCTION

Title (de)

MANGAN ENTHALTENDE METALLPHOSPHATE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)

PHOSPHATES MÉTALLIQUES CONTENANT DU MANGANÈSE ET PROCÉDÉ POUR LES PRÉPARER

Publication

**EP 2794472 A1 20141029 (DE)**

Application

**EP 12809277 A 20121221**

Priority

- DE 102011056816 A 20111221
- EP 2012076669 W 20121221

Abstract (en)

[origin: WO2013093014A1] Monometallic phosphate containing manganese (Mn) of the type  $Mn_3(PO_4)_2 \cdot x \cdot y \cdot H_2O$  or mixed metallic phosphate of the type  $(Mnx \text{ Mety})_3(PO_4)_2 \cdot x \cdot y \cdot H_2O$ , wherein  $x + y = 1$  and Met represents one or multiple metals selected from Fe, Co, Ni, Sc, Ti, V, Cr, Cu, Zn, Be, Mg, Ca, Sr, Ba, Al, Zr, Hf, Re, Ru, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu, characterised in that the phosphate in the powder x-ray diffraction diagram has peaks at  $10.96 \pm 0.05$ ,  $12.78 \pm 0.17$ ,  $14.96 \pm 0.13$ ,  $17.34 \pm 0.15$ ,  $18.98 \pm 0.18$ ,  $21.75 \pm 0.21$ ,  $22.07 \pm 0.11$ ,  $22.97 \pm 0.10$ ,  $25.93 \pm 0.25$ ,  $26.95 \pm 0.30$ ,  $27.56 \pm 0.10$ ,  $29.19 \pm 0.12$ ,  $29.84 \pm 0.21$ ,  $30.27 \pm 0.12$ ,  $34.86 \pm 0.21$ ,  $35.00 \pm 0.20$ ,  $35.33 \pm 0.30$ ,  $35.58 \pm 0.10$ ,  $35.73 \pm 0.12$ ,  $42.79 \pm 0.45$ ,  $43.37 \pm 0.45$ ,  $44.70 \pm 0.15$  and  $44.93 \pm 0.20$  degree two-Theta, based on CuKalpha radiation.

IPC 8 full level

**C01B 25/37** (2006.01); **C01B 25/45** (2006.01)

CPC (source: EP RU US)

**C01B 25/37** (2013.01 - RU); **C01B 25/377** (2013.01 - EP US); **C01B 25/45** (2013.01 - EP RU US); **C01G 45/00** (2013.01 - RU); **H01M 4/5825** (2013.01 - EP US); **H01M 4/625** (2013.01 - US); **C01P 2002/52** (2013.01 - EP US); **C01P 2002/54** (2013.01 - EP US); **C01P 2002/72** (2013.01 - EP US); **C01P 2002/77** (2013.01 - EP US); **C01P 2004/04** (2013.01 - EP US); **C01P 2004/20** (2013.01 - EP US); **C01P 2004/32** (2013.01 - EP US); **C01P 2004/40** (2013.01 - US); **C01P 2006/40** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP)

Citation (search report)

See references of WO 2013093014A1

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**WO 2013093014 A1 20130627**; BR 112014012066 A2 20170613; BR 112014012066 A8 20170620; CA 2851432 A1 20130627; CN 104039693 A 20140910; CN 104039693 B 20170301; DE 102011056816 A1 20130801; EP 2794472 A1 20141029; IN 962KON2014 A 20151009; JP 2015502911 A 20150129; JP 6097306 B2 20170315; KR 20140110892 A 20140917; MY 185281 A 20210430; RU 2014129527 A 20160210; RU 2616063 C2 20170412; TW 201343542 A 20131101; TW I576312 B 20170401; US 2015108412 A1 20150423; US 9350020 B2 20160524

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