

Title (en)

BINDER COMPOSITION AND PROCESS FOR AGGLOMERATING PARTICULATE MATERIAL.

Title (de)

BILDERZUSAMMENSETZUNG UND -VERFAHREN ZUM AGGLOMERIEREN TEILCHENFORMIGEN MATERIALS.

Title (fr)

COMPOSITION DE LIANT ET PROCEDE D'AGGLOMERATION DE MATIERE PARTICULAIRE.

Publication

EP 0656072 A4 19960626 (EN)

Application

EP 92917701 A 19920806

Priority

- BR 9207150 A 19920806
- CA 2141787 A 19920806
- US 9206551 W 19920806

Abstract (en)

[origin: WO9403648A1] The present invention generally relates to a process of agglomerating particulate material in the presence of water which comprises mixing said particulate material with a binding effective amount of at least one water soluble polymer, and a binder enhancing effective amount of caustic, to produce a mixture, and forming said mixture into agglomerates. The invention also relates to a binder composition useful for the agglomeration of particulate material in the presence of water which comprises a binding effective amount of a water-soluble polymer and a binder enhancing effective amount of caustic.

IPC 1-7

C22B 1/244

IPC 8 full level

C22B 1/243 (2006.01); **C22B 1/244** (2006.01)

CPC (source: EP)

C22B 1/243 (2013.01); **C22B 1/244** (2013.01)

Citation (search report)

- [X] US 5112582 A 19920512 - POLIZZOTTI DAVID M [US]
- [X] EP 0427602 A1 19910515 - ROQUETTE FRERES [FR]
- [EA] EP 0541181 A1 19930512 - AKZO NV [NL]
- [Y] US 825440 A 19060710 - WOODMANSEE WESLEY G [US]
- [AD] US 4288245 A 19810908 - ROORDA HERM J, et al
- [AD] EP 0376713 A2 19900704 - ALLIED COLLOIDS LTD [GB]
- [A] WO 9205290 A1 19920402 - ORIOX TECHNOLOGIES INC [US]
- [AD] US 4948430 A 19900814 - BANYAI BRUCE E [US], et al
- [A] EP 0297553 A1 19890104 - AQUALON CO [US] & US 4863512 A 19890905 - BANYAI BRUCE E [US], et al
- [AD] US 4751259 A 19880614 - ROE WILLIAM J [US], et al
- [A] DE SOUZA ET AL.: "Production of Acid Iron Ore Pellet for Direct Reduction, Using an Organic Binder", MINING ENGINEERING, October 1984 (1984-10-01), pages 1437 - 1441, XP002001468
- See references of WO 9403648A1

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE

DOCDB simple family (publication)

WO 9403648 A1 19940217; AT E190671 T1 20000415; AU 2406792 A 19940303; AU 685385 B2 19980122; BR 9207150 A 19951212; CA 2141787 A1 19940217; CA 2141787 C 20061010; DE 69230806 D1 20000420; DE 69230806 T2 20001116; EP 0656072 A1 19950607; EP 0656072 A4 19960626; EP 0656072 B1 20000315; ES 2144422 T3 20000616; NO 311227 B1 20011029; NO 950401 D0 19950203; NO 950401 L 19950203

DOCDB simple family (application)

US 9206551 W 19920806; AT 92917701 T 19920806; AU 2406792 A 19920806; BR 9207150 A 19920806; CA 2141787 A 19920806; DE 69230806 T 19920806; EP 92917701 A 19920806; ES 92917701 T 19920806; NO 950401 A 19950203