

Title (en)
PICKLING AND DESCALING PASTE FOR METALS

Publication
EP 0058257 B1 19841010 (DE)

Application
EP 81201305 A 19811125

Priority
DE 3105508 A 19810214

Abstract (en)
[origin: US4400289A] A pickling and rust-removing paste composition suitable for cleaning metal surfaces, including surfaces of steel and aluminum. The composition contains fluoride ions and a mixture of calcium compounds and tervalent iron and/or aluminum compounds and has an acidity corresponding to at least 10% by weight of free acid, calculated at 100% HF. The composition also most preferably contains at least one anion selected from nitrate, sulfate, phosphate and chloride and has an acidity corresponding to from about 15 to 30% by weight of free acid, calculated as 100% HF. The composition is applied to that portion of the metal surface, such as steel or aluminum, to be treated and is retained in contact with the surface for a period of time sufficient to effect the desired pickling and/or removal of rust on the surface.

IPC 1-7
C23G 1/08; **C23G 1/12**; **C09K 13/08**

IPC 8 full level
C09K 13/08 (2006.01); **C23G 1/02** (2006.01); **C23G 1/08** (2006.01); **C23G 1/12** (2006.01)

CPC (source: EP US)
C23G 1/025 (2013.01 - EP US)

Cited by
EP0161667A1; US7041629B2; WO0006797A1; WO9321362A3

Designated contracting state (EPC)
AT BE CH DE FR LI NL SE

DOCDB simple family (publication)
EP 0058257 A1 19820825; **EP 0058257 B1 19841010**; AT E9824 T1 19841015; CA 1185507 A 19850416; DE 3105508 A1 19820902; DE 3166635 D1 19841115; IT 1157917 B 19870218; IT 8219530 A0 19820209; US 4400289 A 19830823

DOCDB simple family (application)
EP 81201305 A 19811125; AT 81201305 T 19811125; CA 394872 A 19820125; DE 3105508 A 19810214; DE 3166635 T 19811125; IT 1953082 A 19820209; US 34633182 A 19820205