

Title (en)  
Method of cleaning metals.

Title (de)  
Verfahren zur Reinigung von Metallen.

Title (fr)  
Méthode de nettoyage de métaux.

Publication  
**EP 0015336 A1 19800917 (EN)**

Application  
**EP 79300966 A 19790529**

Priority  
ZA 79884 A 19790223

Abstract (en)  
Ferrous metal parts are prepared for painting without a prewipe, but passed through two cleaning stages prior to phosphating. The parts are spray cleaned in the first stage by means of an aqueous liquid containing an alkali metal cleaner and a solvent-emulsifier, the concentration of the latter being several times that of the cleaner. In the second stage the parts are spray rinsed with a solution also containing an alkali cleaner and a lesser amount of a solvent-emulsifier.

IPC 1-7  
**C23G 5/02**; **C23F 7/10**

IPC 8 full level  
**B08B 3/08** (2006.01); **B05D 7/14** (2006.01); **C23C 22/78** (2006.01); **C23G 5/06** (2006.01)

CPC (source: EP)  
**C23C 22/78** (2013.01); **C23G 5/06** (2013.01)

Citation (search report)

- US 2208524 A 19400716 - DARSEY VAN M, et al
- DE 1170750 B 19640521 - COLLARDIN GMBH GERHARD
- US 2298312 A 19421013 - ROMIG GERALD C

Cited by  
CN114850621A; WO9623088A1

Designated contracting state (EPC)  
DE FR GB IT NL SE

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**EP 79300966 A 19790529**; AU 4752879 A 19790529; BR 7904605 A 19790719; JP 7513979 A 19790614; PT 6974879 A 19790608