

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
19 August 2004 (19.08.2004)

PCT

(10) International Publication Number
WO 2004/070081 A3

(51) International Patent Classification⁷: **C23C 22/03**,
C10M 125/24

(21) International Application Number:
PCT/US2004/002886

(22) International Filing Date: 30 January 2004 (30.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/443,995 31 January 2003 (31.01.2003) US
60/480,672 23 June 2003 (23.06.2003) US

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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
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PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

(88) Date of publication of the international search report:
4 November 2004

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.



WO 2004/070081 A3

(54) Title: METHOD AND COMPOSITION FOR CREATION OF CONVERSION SURFACE

(57) Abstract: The present invention relates generally to the field of metal conversion surfaces, in particular, the creation of a phosphate-metal chemisorbed layer for iron and aluminum parts as well as to other metal substrates capable of forming a conversion surface. A phosphorus-containing solution is brought into contact with the metal components such that a conversion surface is formed.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/S2004/002886

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C23C22/03 C10M125/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C23C C10M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 540 788 A (DEFALCO FRANK G ET AL) 30 July 1996 (1996-07-30) cited in the application	21,22,25
A	column 3, line 1 - column 4, line 20	1-20,23, 24, 26-28,33
X	----- EP 1 101 837 A (ST MICROELECTRONICS SRL) 23 May 2001 (2001-05-23) paragraph [0040]; claims -----	21,23, 24,33
	-/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 June 2004

Date of mailing of the international search report

22.09.04

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/S2004/002886

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199534 Derwent Publications Ltd., London, GB; Class M13, AN 1995-261714 XP002283860 & JP 07 166366 A (KAWASAKI STEEL CORP) 27 June 1995 (1995-06-27) abstract -----	1,3,7-9, 11,13, 14, 18-21,23
X	----- US 6 136 268 A (JUHALA PENTTI ET AL) 24 October 2000 (2000-10-24) example 2 -----	1,3,6-9, 11
X	----- DATABASE WPI Section Ch, Week 198739 Derwent Publications Ltd., London, GB; Class A60, AN 1987-273881 XP002283861 & JP 62 190297 A (JOHNSON KK) 20 August 1987 (1987-08-20) abstract -----	1-27,33
A	----- US 2 842 112 A (KOLFENBACH JOHN J ET AL) 8 July 1958 (1958-07-08) column 4, line 38 - line 71; claims -----	1-28,33

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/002886

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2004/002886

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1 - 28, 33

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-28,33

Solutions and lubricating compositions comprising a mixture of YH_2PO_4 and Y_2HP_04 (where Y is a cation eg K) as additives for forming conversion coatings as well as processes for forming such conversion coatings

2. claims: 29-32

Methods for forming conversion coatings on non-ferrous metals using a solution comprising the product of a highly exothermic reaction between an alkali metal hydroxide salt, a phosphorous containing acid and an ammonium or amine compound
