

(19)



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11)

EP 1 676 931 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
26.07.2006 Bulletin 2006/30

(51) Int Cl.:
C22C 21/06^(2006.01) B41N 1/08^(2006.01)

(43) Date of publication A2:
05.07.2006 Bulletin 2006/27

(21) Application number: **06075572.5**

(22) Date of filing: **11.12.2001**

(84) Designated Contracting States:
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE TR**

(30) Priority: **11.12.2000 EP 00311029**
25.07.2001 GB 0118100

(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
01270197.5 / 1 341 942

(71) Applicant: **Novelis, Inc.**
Toronto, Ontario M5J 1S9 (CA)

(72) Inventors:
• **Rottwinkel, Theodor**
37139 Adelebsen (DE)

- **Wright, David Skingley**
37124 Rosdorf-Dramfeld (DE)
- **Hamerton, Richard Gary**
Chipping Norton
Oxfordshire OX7 5LF (GB)
- **Brown, Jeremy Mark**
Banbury
Oxon OX16 0ED (GB)
- **Ward, John Andrew**
Leamington Spa
Warwickshire CV32 7TA (GB)

(74) Representative: **Knowles, James Atherton**
Stevens Hewlett & Perkins
1 St Augustine's Place
Bristol BS1 4UD (GB)

(54) **Aluminium alloy for lithographic sheet**

(57) A lithographic sheet obtainable by a method not
including an interannealing step is disclosed. The sheet
is formed from an alloy having a composition in wt%:
Mg 0.05 to 0.30
Mn 0.05 to 0.25
Fe 0.11 to 0.40
Si up to 0.25
Ti up to 0.03
B up to 0.01

Cu up to 0.01
Cr up to 0.03
Zn up to 0.15
Unavoidable impurities up to 0.05 each, 0.15 total,
Al balance.
Also disclosed is the alloy with a composition as above
and a method for forming the lithographic sheet.

EP 1 676 931 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 06 07 5572

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
P,X	EP 1 065 071 A (VAW VER ALUMINIUM WERKE AG) 3 January 2001 (2001-01-03) * page 6, line 15 - line 50; examples 1-3; table 2 * * page 7, line 14 - line 34; examples 4,5,9; table 4 * * claims 1,2,5-8 *	1-29	INV. C22C21/06 B41N1/08
P,A	-----	30	
A	PATENT ABSTRACTS OF JAPAN vol. 011, no. 297 (C-448), 25 September 1987 (1987-09-25) -& JP 62 086143 A (SKY ALUM CO LTD;OTHERS: 01), 20 April 1987 (1987-04-20) * abstract * * page 8; table 1 *	1-30	
A	-----		
A	US 5 372 780 A (LIMBACH PETER K F ET AL) 13 December 1994 (1994-12-13) * the whole document *	1-30	
A	-----		
A	EP 0 097 318 A (FUJI PHOTO FILM CO LTD ;FURUKAWA ALUMINIUM (JP)) 4 January 1984 (1984-01-04) * the whole document *	1-30	TECHNICAL FIELDS SEARCHED (IPC) C22C B41N
A	-----		
A	US 4 822 715 A (SHOJI RYO ET AL) 18 April 1989 (1989-04-18) * column 8, line 6 - column 11, line 5; example 1; table 1 * * claims *	1-30	
A	-----		
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 040 (C-1155), 21 January 1994 (1994-01-21) -& JP 05 263172 A (FURUKAWA ALUM CO LTD), 12 October 1993 (1993-10-12) * abstract * * page 5; example 8; table 1 *	19-22, 29,30	
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 9 May 2006	Examiner Patton, G
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

3
EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 06 07 5572

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

09-05-2006

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1065071	A	03-01-2001	BR 0002955 A	03-04-2001
			DE 29924474 U1	28-08-2003
			ES 2232347 T3	01-06-2005
			JP 2001049373 A	20-02-2001
			JP 2004250794 A	09-09-2004
			US 6447982 B1	10-09-2002

JP 62086143	A	20-04-1987	JP 1833959 C	29-03-1994

US 5372780	A	13-12-1994	AT 138419 T	15-06-1996
			DE 69027122 D1	27-06-1996
			DE 69027122 T2	10-10-1996
			EP 0500715 A1	02-09-1992
			ES 2087164 T3	16-07-1996
			WO 9107514 A1	30-05-1991
			JP 2975107 B2	10-11-1999
			JP 5501585 T	25-03-1993

EP 0097318	A	04-01-1984	JP 1047545 B	16-10-1989
			JP 1742547 C	15-03-1993
			JP 58221254 A	22-12-1983

US 4822715	A	18-04-1989	CA 1291654 C	05-11-1991
			DE 3765968 D1	13-12-1990
			EP 0239995 A2	07-10-1987
			JP 1860944 C	27-07-1994
			JP 5076530 B	22-10-1993
			JP 62230946 A	09-10-1987

JP 05263172	A	12-10-1993	NONE	
