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(72) Inventors:
 • **Sawada, Hirokazu**
Haibara-gun Shizuoka (JP)
 • **Uesugi, Akio**
Haibara-gun Shizuoka (JP)

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(74) Representative: **HOFFMANN EITL**
Patent- und Rechtsanwälte
Arabellastrasse 4
81925 München (DE)

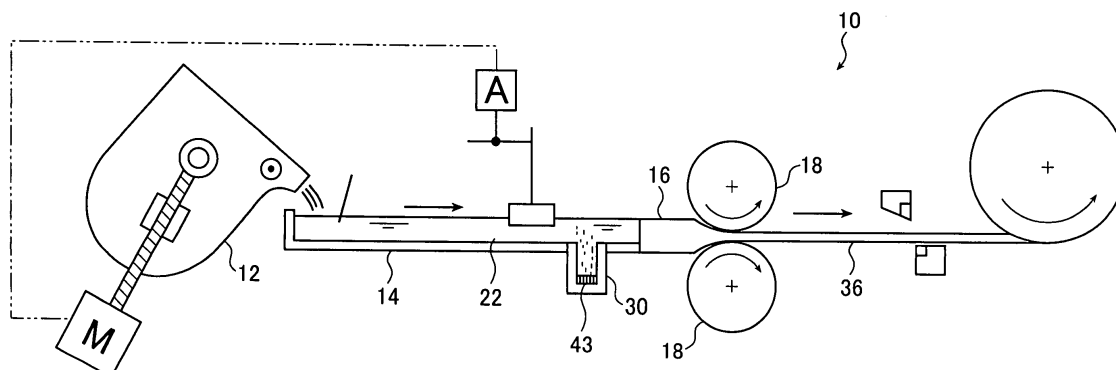
(71) Applicant: **FUJI PHOTO FILM CO., LTD.**
Kanagawa 250-0123 (JP)

(54) **Method of manufacturing a support for a lithographic printing plate**

(57) Disclosed is a method of manufacturing a support for a lithographic printing plate, which method includes: a casting step in which an aluminum alloy melt is fed between a pair of cooling rollers by a melt feed nozzle and is rolled as it is being solidified by the pair of cooling rollers, forming an aluminum alloy plate, and a graining treatment step in which a surface of the aluminum alloy plate is subjected to graining treatment which includes at least alkali etching treatment and subsequent electrochemical graining treatment, thereby giving

a support for a lithographic printing plate; wherein the surface of the aluminum alloy plate on the side which is subjected to the graining treatment undergoes an amount of aluminum dissolution X per square meter (g/m²) during the alkali etching treatment and has a total amount of electricity Y per square decimeter (C/dm²) applied thereto during an anode reaction in the electrochemical graining treatment such as to satisfy formula (1) below: $1,000 > Y \geq 10x$ (1). By using this method, a support for a lithographic printing plate which is free of surface mottling is provided.

FIG. 1





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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	EP 0 615 801 A (FUJI PHOTO FILM CO., LTD) 21 September 1994 (1994-09-21) * page 3, line 45 - line 53 * * page 4, line 28 - line 58 * * page 5, line 54 - page 6, line 28 * * example 1 * * figure 1 *	1-10	B41N3/03 B41N1/08
D,A	----- PATENT ABSTRACTS OF JAPAN vol. 2002, no. 09, 4 September 2002 (2002-09-04) & JP 2002 143988 A (FUJI PHOTO FILM CO LTD), 21 May 2002 (2002-05-21) * abstract *	2-5	
A	----- EP 0 928 652 A (FUJI PHOTO FILM CO., LTD) 14 July 1999 (1999-07-14) * paragraphs [0015], [0016], [0024] * * figure 1 *	6	
D,A	& PATENT ABSTRACTS OF JAPAN vol. 1999, no. 12, 29 October 1999 (1999-10-29) & JP 11 192537 A (FUJI PHOTO FILM CO LTD), 21 July 1999 (1999-07-21) * abstract *	6	TECHNICAL FIELDS SEARCHED (Int.Cl.7) B41N B22D C22C
D,A	----- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 07, 29 September 2000 (2000-09-29) & JP 2000 117402 A (FUJI PHOTO FILM CO LTD), 25 April 2000 (2000-04-25) * abstract *	7	
D,A	----- PATENT ABSTRACTS OF JAPAN vol. 2000, no. 04, 31 August 2000 (2000-08-31) & JP 2000 024762 A (FUJI PHOTO FILM CO LTD), 25 January 2000 (2000-01-25) * abstract *	8	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 12 July 2005	Examiner Bonnin, D
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			

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EPO FORM 1503 03.82 (P04C01)

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

EP 04 02 3067

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
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12-07-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0615801	A	21-09-1994	JP 3097792 B2	10-10-2000
			JP 6262308 A	20-09-1994
			DE 69418748 D1	08-07-1999
			DE 69418748 T2	07-10-1999
			EP 0615801 A1	21-09-1994
			US 5462614 A	31-10-1995
			JP 7173582 A	11-07-1995

JP 2002143988	A	21-05-2002	CN 1353047 A	12-06-2002

EP 0928652	A	14-07-1999	JP 3580469 B2	20-10-2004
			JP 11192537 A	21-07-1999
			AT 244083 T	15-07-2003
			DE 69909141 D1	07-08-2003
			DE 69909141 T2	08-01-2004
			EP 0928652 A1	14-07-1999

JP 2000117402	A	25-04-2000	NONE	

JP 2000024762	A	25-01-2000	NONE	
