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(54) **Title**: METHOD AND DEVICE FOR PRODUCING SOLAR CELLS

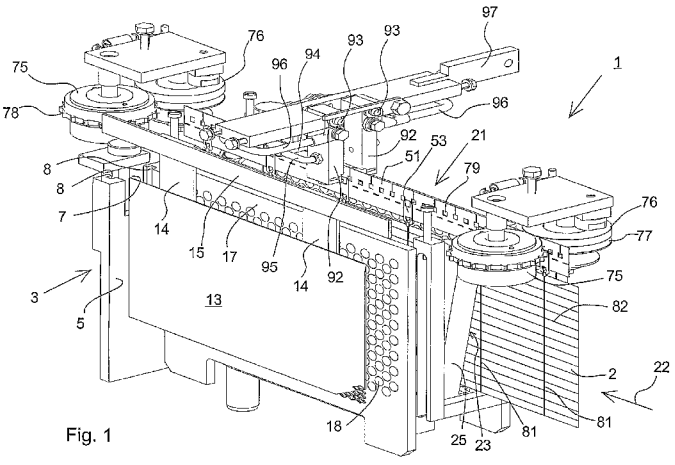


Fig. 1

(57) **Abstract**: The present invention provides a method for producing solar cells, comprising the steps of - providing silicon containing vitreous substrates, each provided with an electrically conductive material on at least one side thereof, - successively transporting at least a portion of each substrate through an electrolytic solution that is present in an electrolytic bath, - connecting said electrically conductive material as the cathode during the transport of the substrates through the electrolytic bath for the purpose of electrodepositing material from the electrolytic solution onto the electrically conductive material during said transport, wherein the substrates are suspended from a conveyor element during transport and extend in the transport direction. The invention further provides a device for producing solar cells.

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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)
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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

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/016182 A (AEM TECH ENGINEERS PTE LTD [SG]; WONG CHIN MING [MY]) 27 February 2003 (2003-02-27) figures 1,7-9,13-17 claims 1,16,18,30,31,33,34,38 page 1, paragraphs 2,3 page 7, paragraph 1 - page 8, paragraph 1 page 13, paragraphs 4,5	1-25
X	US 4 401 522 A (BUSCHOW ADOLPH G [US] ET AL) 30 August 1983 (1983-08-30) claims 1-5; figures 1-11 column 1, lines 12-16 column 3, lines 35-48 column 5, lines 3-63 column 6, lines 43-65	1-10,14, 18-23

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[X] Further documents are listed in the continuation of Box C.

[X] See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 800 049 A (CEM MACHINERY PTE LTD [SG]) 27 April 2001 (2001-04-27) claims 1,13,15; figures 1,3a,6 page 4, lines 25-37 page 8, lines 28-36 page 10, lines 12-17	1-25
X	KR 100 749 924 B1 (SOL TECH CO LTD [KR]) 9 August 2007 (2007-08-09) abstract	9,10
X	US 4 775 046 A (GRAMAROSSA DANIEL J [US] ET AL) 4 October 1988 (1988-10-04) claim 1; figures 1,4,6 column 1, lines 5-12 - column 2, line 28 column 3, line 33 - column 4, line 43 column 5, lines 1-12	1-25

INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 03016182 A	27-02-2003	CN 1500057 A	26-05-2004
		EP 1427656 A1	16-06-2004
		HK 1066514 A1	11-05-2007
		JP 2005500223 T	06-01-2005
		TW 536511 B	11-06-2003
US 4401522 A	30-08-1983	NONE	
FR 2800049 A	27-04-2001	MA 25213 A1	02-07-2001
KR 100749924 B1	09-08-2007	NONE	
US 4775046 A	04-10-1988	NONE	