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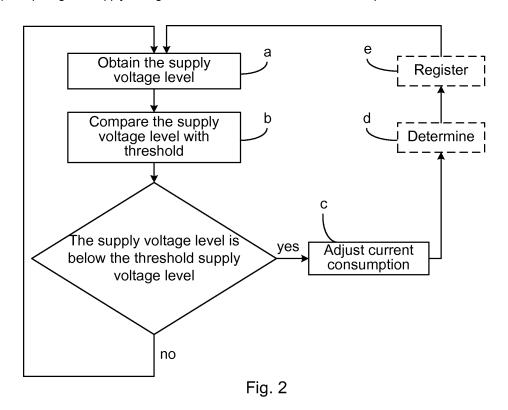
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(54) Method and control system for power consumption control of electromechanical locks

(57) A method for controlling the power consumption of an electromechanical lock is presented herein. The method increases reliability in a security system comprising an access system and one or more electromechanical lock installations. The method comprises the steps of: a) obtaining the supply voltage level of the electromechanical lock, b) comparing the supply voltage level with a

lower threshold supply voltage level and, if the supply voltage level is below the threshold supply voltage level, c) adjusting the current of the electromechanical lock such that the supply voltage level is raised at least to the threshold supply voltage level. In addition, a control system for controlling the power consumption of an electromechanical lock is presented.



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EUROPEAN SEARCH REPORT

Application Number EP 14 15 7803

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DOCUMENTS CONSIDERED TO BE RELEVANT CLASSIFICATION OF THE APPLICATION (IPC) Citation of document with indication, where appropriate, Relevant Category of relevant passages to claim 10 US 2010/326145 A1 (POWERS DAVID R [US] ET Χ 1-3, INV. AL) 30 December 2010 (2010-12-30) 5-10, G07C9/00 12-16 * paragraph [0011] - paragraph [0013] * paragraphs [0060], [0067] * γ 4.11 paragraph [0175] - paragraph [0189] * 15 * figures 1,12 * χ US 2003/098777 A1 (TAYLOR RONALD [US] ET 1-3,8-10 AL) 29 May 2003 (2003-05-29) * paragraph [0011] - paragraph [0014] *
* paragraph [0029] - paragraph [0032] *
* paragraph [0040] - paragraph [0051] * 20 * figures * Υ US 6 816 081 B1 (OKADA HIROKI [JP] ET AL) 4.11 9 November 2004 (2004-11-09) 25 * column 15, line 12 - column 16, line 6 * * figures 19,20 * TECHNICAL FIELDS SEARCHED (IPC) Α US 5 248 967 A (DANESHFAR MAREK [GB]) 1,4-6, 28 September 1993 (1993-09-28) 10-13 30 * column 7, line 52 - column 10, line 56 * G07C * figures 35 40 45 The present search report has been drawn up for all claims 1 Place of search Date of completion of the search Examiner 50 (P04C01) Miltgen, Eric 10 June 2016 The Hague 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 CATEGORY OF CITED DOCUMENTS 03.82 (X : particularly relevant if taken alone Y : particularly relevant if combined with another 1503 document of the same category L: document cited for other reasons A : technological background
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P : intermediate document

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document

& : member of the same patent family, corresponding

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EP 14 15 7803

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10-06-2016

	Patent document cited in search report		Publication date	Patent family member(s)			Publication date
	US 2010326145	A1	30-12-2010	CA CA CA CA CA CA CA CA CA CA CA CA CA C	2766778 2766780 2766782 2766784 2766819 2766942 2483839 2484240 2487136 2487137 177374 177375 177376 177377 177378 177379 2010326145 2010326145 2010326147 2010328031 20103259 2011005282 2010151898 2010151900 2010151901 2010151901 2010151902 2010151903	A1 A1 A1 A1 A A A A A A A A A A A A A A	29-12-2010 29-12-2010 29-12-2010 29-12-2010 29-12-2010 29-12-2010 21-03-2012 04-04-2012 11-04-2012 11-07-2012 28-02-2012 28-02-2012 28-02-2012 28-02-2012 28-02-2012 28-02-2012 28-02-2012 30-12-2010 30-12-2010 30-12-2010 30-12-2010 30-12-2010 29-12-2010 29-12-2010 29-12-2010 29-12-2010
	US 2003098777	A1	29-05-2003	NONE			
	US 6816081	В1	09-11-2004	DE DE EP JP JP US WO	69828582 69828582 0937844 2970638 H11141211 6816081 9851892	T2 A1 B2 A B1	17-02-2005 01-12-2005 25-08-1999 02-11-1999 25-05-1999 09-11-2004 19-11-1998
459	US 5248967	A 	28-09-1993	NONE			
FORM P0459							

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