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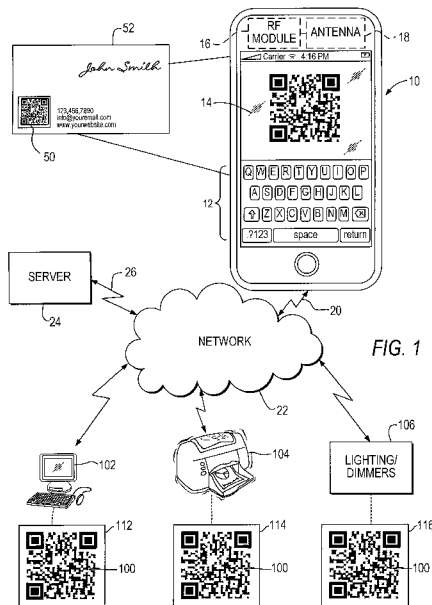
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(54) Title: AUTHENTICATING A USER TO OPERATE AN ELECTRICAL DEVICE

(57) Abstract: A user is authenticated to operate an electrical device in a network, by encoding an identification symbol with identification data that identifies the user, and by encoding a composite symbol with the identification data and with operating data that enables the electrical device to be operated. The composite symbol is associated with the electrical device to be operated. An image of the identification symbol, and an image of the composite symbol, are captured and compared. The user is enabled to operate the electrical device when the identification data in the composite symbol matches the identification data in the identification symbol.



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<p>A. CLASSIFICATION OF SUBJECT MATTER IPC(8) - G06F 21/00 (2014.01) CPC - G06F 21/00; H04L 63/08, 63/10 According to International Patent Classification (IPC) or to both national classification and IPC</p>																																															
<p>B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC(8) Classification(s): G06F 21/00 (2014.01) CPC Classification(s): G06F 21/00; H04L 63/08, 63/10; USPC Classification(s): 726/3, 4, 19 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 practicable, search terms used) MicroPatent (US Granted, US Applications, EP-A, EP-B, WO, JP, DE-G, DE-A, DE-T, DE-U, GB-A, FR-A); Google.com, scholar.google.com; DialogPro (Derwent, INSPEC, NTIS, PASCAL, Current Contents Search, Dissertation Abstracts Online, Inside Conferences); KEYWORDS: symbol, qr code, quick response code, bar code, datamatrix, compare, match, capture, sensor, enco</p>																																															
<p>C. DOCUMENTS CONSIDERED TO BE RELEVANT</p> <table border="1"> <thead> <tr> <th>Category*</th> <th>Citation of document, with indication, where appropriate, of the relevant passages</th> <th>Relevant to claim No.</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>US 2013/0031623 A1 (SANDERS A. D.) January 31, 2013; figure 5; paragraphs [0029], [0041]</td> <td>1-6, 10</td> </tr> <tr> <td>--</td> <td></td> <td>---</td> </tr> <tr> <td>Y</td> <td></td> <td>7</td> </tr> <tr> <td>Y</td> <td>US 2013/0043302 A1 (POWLEN M. S. et al.) February 21, 2013; paragraphs [0034], [0039]</td> <td>7</td> </tr> <tr> <td>A</td> <td>US 8,251,290 B1 (BUSHMAN S. J. L. et al.) August 28, 2012; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2008/0304891 A1 (SAIJO S. et al.) December 11, 2008; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2010/0275010 A1 (GHIRARDI M.) October 28, 2010; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2011/0219427 A1 (HITO G. et al.) September 08, 2011; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2012/00668818 A1 (MIZON J.) March 22, 2012; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2012/0168497 A1 (YACH D. P.) July 05, 2012; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2012/0233669 A1 (HUSEMANN D. et al.) September 13, 2012; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2013/0054271 A1 (LANGFORD J. J. et al.) February 28, 2013; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2013/0111208 A1 (SABIN J. A. et al.) May 02, 2013; entire document</td> <td>1-10</td> </tr> <tr> <td>A</td> <td>US 2013/0144698 A1 (DE P. et al.) June 06, 2013; entire document</td> <td>1-10</td> </tr> </tbody> </table>			Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	X	US 2013/0031623 A1 (SANDERS A. D.) January 31, 2013; figure 5; paragraphs [0029], [0041]	1-6, 10	--		---	Y		7	Y	US 2013/0043302 A1 (POWLEN M. S. et al.) February 21, 2013; paragraphs [0034], [0039]	7	A	US 8,251,290 B1 (BUSHMAN S. J. L. et al.) August 28, 2012; entire document	1-10	A	US 2008/0304891 A1 (SAIJO S. et al.) December 11, 2008; entire document	1-10	A	US 2010/0275010 A1 (GHIRARDI M.) October 28, 2010; entire document	1-10	A	US 2011/0219427 A1 (HITO G. et al.) September 08, 2011; entire document	1-10	A	US 2012/00668818 A1 (MIZON J.) March 22, 2012; entire document	1-10	A	US 2012/0168497 A1 (YACH D. P.) July 05, 2012; entire document	1-10	A	US 2012/0233669 A1 (HUSEMANN D. et al.) September 13, 2012; entire document	1-10	A	US 2013/0054271 A1 (LANGFORD J. J. et al.) February 28, 2013; entire document	1-10	A	US 2013/0111208 A1 (SABIN J. A. et al.) May 02, 2013; entire document	1-10	A	US 2013/0144698 A1 (DE P. et al.) June 06, 2013; entire document	1-10
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<p>Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, Virginia 22313-1450 Facsimile No. 571-273-3201</p>		<p>Authorized officer: Shane Thomas PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774</p>																																													