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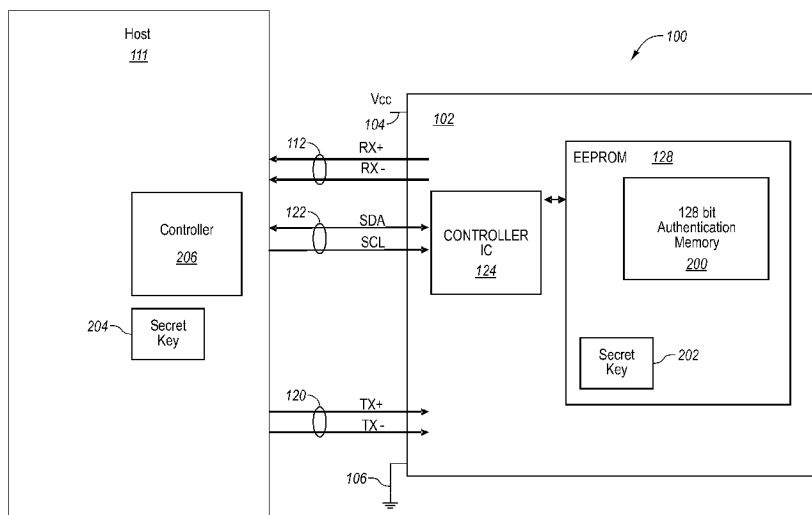


Fig. 2

(57) Abstract: Methods and systems for detecting counterfeit optical communications products are described. An exemplary system includes a host device and a fiber optic component, such as an optical transceiver. The optical transceiver may include a TOSA, a ROSA, a controller circuit, and a memory module. The controller circuit may be operably connected to the TOSA, the ROSA, and the memory module. The host device may send a set of challenge data to the optical transceiver. The optical transceiver may respond with a data set encrypted by the controller circuit using a secret key stored in the memory module. The encrypted response data set may be evaluated to determine whether the optical transceiver is authentic.

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INTERNATIONAL SEARCH REPORT

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PCT/US2008/082300**A. CLASSIFICATION OF SUBJECT MATTER*****H04B 10/02(2006.01)i, H04B 10/12(2006.01)i, H04L 12/28(2006.01)i, H04B 10/00(2006.01)i***

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)

IPC H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975
Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS(KIPO internal) : "optical transceiver, authentication, key"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 2005-0113068 A1 (HOFFMANN) 26 May 2005 Abstract, Figs. 1-4, page 2 [19]-[20], page 3 [39]-[42]	1,5,7,10,13 2-4,6,8-9,11-12,14-18
A	US 2007-0177879 A1 (HSIEH) 2 Aug. 2007 Abstract, Figs.3,4	1-18
A	US2007-0092258 A1 (NELSON) 26 Apr. 2007 Abstract, Figs. 2-3	1-18
P,X	US 2008-0267408 A1 (HSIEH) 30 Oct. 2008 Abstract, Figs. 2,4	1,7,13

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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US 2007-177879 A1	02.08.2007	None	
US2007-0092258 A1	26.04.2007	None	
US 2008-0267408 A1	30.10.2008	None	