Title (en)

SYSTEM AND METHOD FOR DISCOVERING COMPROMISED SECURITY DEVICES

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUFDECKUNG VON BLOSSGESTELLTEN SICHERHEITSEINRICHTUNGEN

Title (fr)

SYSTEME ET PROCEDE SERVANT A RECHERCHER DES DISPOSITIFS DE SECURITE COMPROMIS

Publication

EP 1031206 A2 20000830 (EN)

Application

EP 98963737 A 19980916

Priority

- US 9819352 W 19980916
- US 94943897 A 19971014

Abstract (en)

[origin: WO9919822A2] A data delivery system has a content server or other mechanism for delivering encoded content to multiple authorized clients. The authorized clients are equipped with security devices having decoding capabilities to decode the content. Unauthorized clients are prevented from decoding the content because they are not supplied with the decoding capabilities. As part of the data delivery system, a traitor detection system is provided to discover an identity of an authorized client that has been compromised and is illicitly transferring decoding capabilities to unauthorized clients. The traitor detection system generates different decoding capabilities and creates an association file which relates the different decoding capabilities to different authorized clients. The decoding capabilities are traced to determine which of them is illicitly transferred to an illegitimate user. In the event that one of the decoding capabilities is illicitly transferred, the traitor detection system consults the association file to identify one or more of the authorized clients that were originally supplied with the illicitly transferred decoding capabilities. The identified set of clients includes the compromised client. The process is repeated for the identified set of clients with a new set of decoding capabilities to successively narrow the field of possible pirating clients, until the compromised security device is precisely pinpointed.

IPC 1-7

H04L 9/08

IPC 8 full level

G06F 1/00 (2006.01); **G06F 21/10** (2013.01); **H04L 9/10** (2006.01); **H04L 9/32** (2006.01); **H04N 7/167** (2011.01); **H04N 7/173** (2011.01)

CPC (source: EP)

G06F 21/109 (2023.08); **G06F 21/16** (2013.01); **H04N 7/1675** (2013.01); **H04N 7/17345** (2013.01); **H04N 21/26606** (2013.01); **H04N 21/44236** (2013.01)

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 9919822 A2 19990422; **WO 9919822 A3 19990617**; EP 1031206 A2 20000830; JP 2003502719 A 20030121

DOCDB simple family (application)

US 9819352 W 19980916; EP 98963737 A 19980916; JP 2000516305 A 19980916