

Title (en)

METHOD OF SECURING COMPUTER SYSTEMS BY MEANS OF SOFTWARE CONTAINMENT

Title (de)

VERFAHREN ZUR SICHERUNG EINES COMPUTERSYSTEMS DURCH EINKAPSELUNG DER SOFTWARE

Title (fr)

PROCEDE DE SECURISATION DES SYSTEMES INFORMATIQUES PAR CONFINEMENT LOGICIEL

Publication

EP 1576554 A2 20050921 (FR)

Application

EP 03813940 A 20031223

Priority

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- FR 0216933 A 20021224

Abstract (en)

[origin: FR2849233A1] The method involves separating data based on an owner of a memory allocation unit and encryption of the data. Memory allocation is performed by a memory manager based on a request by a component of an operating system. The memory allocation units are controlled by the memory manager. The manager denies access to the allocation unit if an identity of the component is not identical to the owner of the allocation unit. The memory manager verifies by using a secret related to each owner and key derived from the secret are used.

IPC 1-7

G07F 7/10

IPC 8 full level

G06F 12/14 (2006.01); **G06F 21/62** (2013.01); **G06F 21/79** (2013.01); **G07F 7/10** (2006.01); **G06F 12/02** (2006.01)

CPC (source: EP US)

G06F 12/1483 (2013.01 - EP US); **G06F 21/6281** (2013.01 - EP US); **G06F 21/79** (2013.01 - EP US); **G06Q 20/341** (2013.01 - EP US); **G06Q 20/35765** (2013.01 - EP US); **G07F 7/1008** (2013.01 - EP US); **G06F 12/0223** (2013.01 - EP US)

Citation (search report)

See references of WO 2004059493A2

Citation (examination)

- GILMONT T; LEGAT J-D; QUISQUATER J-J: "Enhancing security in the memory management unit", EUROMICRO CONFERENCE, 1999. PROCEEDINGS., 8 September 1999 (1999-09-08) - 10 September 1999 (1999-09-10), LOS ALAMITOS, CA, USA, XP010352217
- GILMONT T; LEGAT J-D; QUISQUATER J-J: "An architecture of security management unit for safe hosting of multiple agents", PROCEEDINGS OF THE SPIE, 1999, BELLINGHAM, VA, US, pages 472 - 483, XP002284378

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