

Title (en)

SYSTEM AND METHOD FOR SECURE ELECTRONIC COMMUNICATION SERVICES

Title (de)

SYSTEM UND VERFAHREN FÜR SICHERE ELEKTRONISCHE KOMMUNIKATIONSDIENSTE

Title (fr)

SYSTÈME ET PROCÉDÉ DESTINÉS À DES SERVICES DE COMMUNICATION ÉLECTRONIQUE SÉCURISÉE

Publication

**EP 2092685 A1 20090826 (EN)**

Application

**EP 07845531 A 20071120**

Priority

- CA 2007002061 W 20071120
- US 60187206 A 20061120
- US 99624007 P 20071107

Abstract (en)

[origin: WO2008061344A1] A system, method and software module for secure electronic communication services, wherein a public key (25) of private-public-key pair (30,25) is associated with an email address (24), internet name or other registered unique identifier; the registered user of the unique identifier holds the private-key (30) securely, and the respective public-key (25) is made accessible on a key server (6) for look-up and retrieval by other users, for encryption of communications to be sent to the holder of the private- key, and optionally for message confidentiality, message integrity and authentication of sender and recipient, without requiring certificates. A distributed and scalable system is provided by a server network (600; 401, 501) for registration, key distribution and management preferably using a kDNS server hierarchy (601,602,603) and associated protocols so that public-keys of recipients can be searched and retrieved over the internet based on the recipients email address or other unique identifier, thus facilitating secure communication between users in different network domains and organizations.

IPC 8 full level

**H04L 29/06** (2006.01); **H04L 9/30** (2006.01); **H04L 9/32** (2006.01); **H04L 12/58** (2006.01)

CPC (source: EP)

**H04L 9/007** (2013.01); **H04L 9/0836** (2013.01); **H04L 9/3073** (2013.01); **H04L 9/3263** (2013.01); **H04L 51/58** (2022.05); **H04L 63/062** (2013.01); **H04L 61/4511** (2022.05); **H04L 63/0861** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2008061344 A1 20080529**; **WO 2008061344 A8 20090226**; CA 2705903 A1 20080529; EP 2092685 A1 20090826; EP 2092685 A4 20120222

DOCDB simple family (application)

**CA 2007002061 W 20071120**; CA 2705903 A 20071120; EP 07845531 A 20071120