



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 :

E05B 49/00

A1

(11) International Publication Number:

WO 00/68536

(43) International Publication Date: 16 November 2000 (16.11.00)

(21) International Application Number: PCT/SE00/00899

(22) International Filing Date: 5 May 2000 (05.05.00)

(30) Priority Data:

9901643-8	6 May 1999 (06.05.99)	SE
0000794-8	10 March 2000 (10.03.00)	SE
0000795-5	10 March 2000 (10.03.00)	SE

(71) Applicant: ASSA ABLOY AB [SE/SE]; P.O. Box 70340, S-107 23 Stockholm (SE).

(72) Inventors: LIDÉN, Inge; Friluftsvägen 13, S-633 59 Eskilstuna (SE). MAGNUSSON, Björn; Djurgårdsvägen 18AII, S-633 40 Eskilstuna (SE). NORBERG, Rolf; Illervägen 29A, S-187 35 Täby (SE). WARNSTRÖM, Johan; Spinnarstigen 13, S-153 36 Järna (SE). HAKKARAINEN, Reijo; Jarrumiehenkatu 4, FIN-80200 Joensuu (FI). SIVONEN, Hannu; Marjovaarantie 40, FIN-82815 Marjovaara (FI). BRENNKE, Gudrun; Harlinger Strasse 1, D-14199 Berlin (DE). CHANEL, Christophe; Langenscheidtstrasse 4, D-10827 Berlin (DE). GÜRTLER, Jens; Puschkinstrasse 36, D-15834 Rangsdorf (DE). KRÜHN, Jürgen; Baseler Strasse 162a, D-12205 Berlin (DE). VARENNE, Alain; 41, rue de Bellevue, F-03110 Vendat (FR). THOMAS, J., M.; 436, rue d'en Haut, F-80460 Woignarue (FR). SCHOELL,

Lance, G.; 3406 Sunchase Court, #136, Roanoke, VA 24018 (US). ANDRE, Gilbert; 10, rue du réservoir, F-10440 Torvilliers (FR). DARMANIN, Christian; 19, boulevard Blanqui, F-10000 Troyes (FR). LEFEBVRE, Arnaud; 92, avenue Pasteur, F-10000 Troyes (FR). HAMMER, Walter; Les Brise cou 20, CH-2073 Enges (CH). JAQUET, Claude-Eric; Joux-Derrière 44, CH-2325 Les Joux-Derrière (CH). PEGUIRON, Nicolas; Mi-Côte 19, CH-2400 Le Locle (CH).

(74) Agents: ESTREEN, Lars et al.; Kransell & Wennborg AB, P.O. Box 27834, S-115 93 Stockholm (SE).

(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: KEY AND LOCK DEVICE

(57) Abstract

A key and lock devices comprises a key (10) having a first electronic circuitry (14) and a lock (20) having a second electronic circuitry (24). The key and the lock store secret information, some of which is unique for each device. The key and the lock exchange a random number through connectors (15, 25) and perform a calculation in the respective circuitry based on the random number and secret information. An electrical blocking mechanism (40) is moved to a non-blocking position if a comparison of the calculations in the circuits give an expected result.

