Title (en)
SECURE METHOD FOR TRANSMITTING DATA BETWEEN A PAYMENT TERMINAL AND A WIRELESS PRINTER

Title (de)
SICHERES VERFAHREN ZUR DATENÜBERTRAGUNG ZWISCHEN EINEM ZAHLUNGSENDGERÄT UND EINEM DRAHTLOSEN DRUCKER

Title (fr)
PROCÉDÉ DE TRANSMISSION SÉCURISÉE DE DONNÉES ENTRE UN TERMINAL DE PAIEMENT ET UNE IMPRIMANTE SANS FIL

Abstract (en)
[origin: CA3103850A1] Novel payment terminals may take the form of a touchscreen tablet which does not include a printer; this allows a printer to be shared among several payment terminals. Issuing a receipt makes it possible to confirm the amount billed and to provide a proof of purchase. The data indicated on a receipt are sensitive and must be secured prior to transmitting them to the printer. However, techniques used to encode the data transmitted to the printer suffer from a lack of security. According to the invention, the payment terminal and the device for receiving data exchange messages relating to negotiating a shared cryptographic key through a first near-field connection. Data relating to a transaction made by the payment terminal are then encrypted using the shared cryptographic key and transmitted to the device for receiving data through a second radio connection.

IPC 8 full level
G06F 3/12 (2006.01); **H04L 9/08** (2006.01); **G06Q 20/20** (2012.01); **H04L 29/06** (2006.01); **H04W 12/00** (2021.01); **H04W 84/12** (2009.01); **H04W 84/18** (2009.01)

CPC (source: EP US)
G06F 3/1209 (2013.01 - US); **G06F 3/1222** (2013.01 - EP); **G06F 3/1236** (2013.01 - EP US); **G06F 3/1238** (2013.01 - EP); **G06F 3/1292** (2013.01 - EP); **G06Q 20/027** (2013.01 - EP); **G06Q 20/204** (2013.01 - EP); **G06Q 20/209** (2013.01 - EP US); **G06Q 20/3278** (2013.01 - EP US); **G06Q 20/3825** (2013.01 - EP); **G06Q 20/3829** (2013.01 - US); **G06Q 20/401** (2013.01 - US); **G06Q 20/425** (2013.01 - EP); **H04L 9/0825** (2013.01 - EP); **H04L 9/088** (2013.01 - EP); **H04L 9/14** (2013.01 - US); **H04L 9/3073** (2013.01 - US); **H04W 12/50** (2021.01 - EP); G06F 3/1292 (2013.01 - US); G06Q 2220/00 (2013.01 - US); H04L 63/0428 (2013.01 - EP); H04L 2209/56 (2013.01 - EP); H04L 2209/805 (2013.01 - EP); H04W 4/80 (2018.02 - EP); H04W 84/12 (2013.01 - EP); H04W 84/18 (2013.01 - EP)

Designated contracting state (EPC)
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FR 1857092 A 20180730; CA 3103850 A 20190725; EP 19742239 A 20190725; EP 2019070084 W 20190725; US 201917263722 A 20190725