SELECTED RESEARCH PUBLICATIONS

2019

Haydn Povey, Stephan Spitz
“Forming a Security Foundation for Trustworthiness in IoT Infrastructures”, The International Journal of IoT Law & Public Policy

2018

Gisela Meister, Stephan Spitz
“Minimal Security Requirements for Home IoT Devices- Is a Standard possible for Europe?” and “5G Security Considerations”, two proceedings at Connected Security World Conference 2018

2017

Sharath Muddaiah, Stephan Spitz
“Security Challenges with Narrow Band IoT”, 5G Summit http://5gsummit.org/dresden-2017/

2016

Stephan Spitz
"Mobile Multifaktor-Authentisierung" in der DuD-Ausgabe 4/2016 https://www.springerprofessional.de/mobile-multifaktor-authentisierung/10162724

“LPWA IoT Security Considerations“ , Connected Security World Conferenz 2018

2014

Stephan Spitz
"Vertrauen und Sicherheit bei Smartphones" DuD 4/2014
https://www.springerprofessional.de/vertrauen-und-sicherheit-bei-smartphones/5903162

„Security Principles of OTA Management”, Chip2Cloud Security Conference

2012

Stephan Spitz
„Neue Mobiltelefone: Geldbörse und Bankfiliale zugleich" DuD 3/2012
https://www.springerprofessional.de/neue-mobiltelefone-geldboerse-und-bankfiliale-zugleich/5901148

2011

Marc-Michael Bergfeld, Stephan Spitz
Privacy and Identity Management on Mobile Devices: Emerging Technologies and Future Directions for Innovation. Privacy and Identity Management for Life 2011: 413-430

2007

“Fixed and mobile convergence” at the ETSI Security Workshop 2007
http://www.etsi.org/images/files/securityworkshop2007/Security2007S7_3_Stephan_Spitz.pdf

2006

Walter Bamberger, Oliver Welter, Stephan Spitz, Michael Marhöfer:
Mobile Phones as Secure Gateways for Message-Based Ubiquitous Communication (Revised). IACR Cryptology ePrint Archive 2007: 337 (2007)

2002

Stephan Spitz, Jens Urmann, Gisela Meister:
ISOIIEC 24727 - A Future Standard for Smart Card Middleware. ISSE 2006: 102-107

SELECTED PATENTS

For further patents please search for „Stephan Spitz" at https://worldwide.espacenet.com:

Title	Publication Number
Microprocessor system with secured runtime environment	DE201110115135
Verfahren zur sicheren Interaktionmit einem Sicherheitselement	DE20091052389
Method and system for personalizing a portable data storage device	DE20081053366
Implementierung einer sicheren Laufzeitumgebung eines mobilen Endgeräts	DE102014007022
Mobile station with bond between end device and security element	US9338647
Chip implemented in e.g. mobile telephone, has security operating system which generates and maintains secure run-time environment setup in which firewall and filter rules are implemented under administration of secure operating system	DE102013000147
Method for performing functional activation in mobile terminal e.g. smart phone, involves enabling appropriate functionality of terminal, if available activation code is corresponded with reference activation code	DE102013000146
Method for programming a mobile terminal chip	WO2012EP00534
Method for operating a microprocessor unit, in particular in a mobile terminal	WO2012EP00765
Method for interchanging data in a secure runtime environment	KR20140027109
Method for preparation of chip implemented or implementable in mobile terminal for secure transmission of data elements to chip from remote server, involves encrypting root key with data key and storing root key on chip in encrypted form	DE102012021719
Verfahren zum Einrichten eines Containers in einem mobilen Endgerät	DE102012021105
Freischalten eines Dienstes auf einem elektronischen Geräts	ES2452699
Method for operating mobile telephone, involves detecting whether cryptographic routine of trusted region is disrupted during execution, and setting non volatile backup when faulty operation counter reaches predetermined threshold value	DE102012008987
Writing system for portable data carriers	EP2706736
Portable data carrier as a web server	US9137296
Ressourcenzugriff unter Vermittlung durch ein Sicherheitsmodul	WO2008EP57177
Program code generation method, program development system, portable data carrier, and program	JP2013041598
Method for configuring an application for an end device	US9582684

Verfahren zur Kommunikation einer Applikation in einer gesicherten Laufzeitumgebung einer Mikroprozessoreinheit mit einer Gegenstelle außerhalb der gesicherten Laufzeitumgebung	DE20111010246
Method for safely performing e.g. bank transaction, involves receiving one-time-password at keyboard by extracting sequence from display, and comparing one-time-password with comparison one-time-password in trusted region	DE102010052666
Provision of a function of a security token	DE20061037473
Application's implementation paths implementing method for e.g. chip card, involves implementing two of paths by one of virtual machines, and assigning different operational resource contingents to virtual machines	DE20051056357
Method for provisioning of a network access for a mobile communication device	US2012083242
Method and system for inspecting product information	DE102010031712
Ausführen von Anwendungsprozessen	WO2006EP08027
Data communication using portable terminal	DE20081051578
Method for running an application with the help of a portable data storage device	EP2393032
Method for providing a secure counter on a terminal	DE102010004446
Call diversion for a VoIP telephone connection where a redirection server is implemented in a security module	WO2009027743
Portable data carrier comprising a cat interpreter	US2011111802
Method for producing data communication connection between e.g. mobile telephone and subscriber identity module card, involves executing coordination application in runtime environment	DE102009040419
Data processing device, particularly portable terminal, has microprocessor unit which comprises confidential zone for executing one or more confidential programs	DE102009042892
Method for activating a runtime environment of a microprocessor unit	DE102010014882
Data communication method and data carrier therefor	US8549161
Method for running a byte code in a secure runtime environment	DE102009024985
Method and data carrier for securing transaction data	DE102009019050
Method for installing an electronic ticket and/or payment application on a mobile terminal	DE20091004113
Operating System for a Chip Card Comprising a Multi-Tasking Kernel	US2009222835
Method and system for protecting a transaction	DE102008004383
Writing data to a portable data carrier	EP2229764
Security module	EP2116075
Authentication for remote function calls	EP2025119
Communication between applications on a portable data storage medium	EP2021919