

EXHIBIT 3



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Finkenzeller et al.

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(54) **DATA STORAGE MEDIUM AND METHOD FOR CONTACTLESS COMMUNICATION BETWEEN THE DATA STORAGE MEDIUM AND A READER**

(75) Inventors: **Klaus Finkenzeller**, Unterföhring (DE);
Karl Eglolf Hartel, München (DE);
Denny Brandl, Eching (DE)

(73) Assignee: **Giesecke & Devrient GmbH**, Munich (DE)

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H04Q 5/22 (2006.01)

(52) **U.S. Cl.**
USPC **340/10.41**; 340/10.1; 340/10.2; 340/10.4;
340/10.42

(58) **Field of Classification Search**
USPC 340/10.1, 10.2, 10.4, 10.41, 10.42
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

6,421,196	B1 *	7/2002	Takayama et al.	360/71
2004/0199784	A1 *	10/2004	Irisawa et al.	713/200
2005/0007236	A1 *	1/2005	Lane et al.	340/5.86
2005/0066039	A1 *	3/2005	Ayatsuka et al.	709/228
2006/0065731	A1 *	3/2006	Powell et al.	235/451
2006/0206343	A1 *	9/2006	Nakanishi et al.	705/1
2007/0274242	A1 *	11/2007	Lamacraft et al.	370/310
2008/0109899	A1 *	5/2008	Rijnsouw Van et al.	726/21
2009/0243810	A1 *	10/2009	Pendlebury et al.	340/10.4

FOREIGN PATENT DOCUMENTS

EP	1 450 299	A1	8/2004
WO	WO 2006/010943	A1	2/2006

* cited by examiner

Primary Examiner — Jennifer Mehmood
Assistant Examiner — Andrew Bee

(74) *Attorney, Agent, or Firm* — Bacon & Thomas, PLLC

(57) **ABSTRACT**

A method and a data carrier for contactless, in particular parallel, communication of a reading device with at least two communication-ready applications located on a portable data carrier. A first communication-readiness signal is generated for a first application and sent to the reading device, the signal having a first identification number that is assigned to the first application and indicates to the reading device the communication readiness of said first application, and a second communication-readiness signal is generated and sent for a second application, the second signal having a second identification number different from the first identification number, which is assigned to said second application and indicates to the reading device the communication readiness of said second application. The identification numbers simulate for the reading device the communication readiness of a data carrier in each case. The reading device thus has the impression of communicating with applications of two separate data carriers.

22 Claims, 4 Drawing Sheets

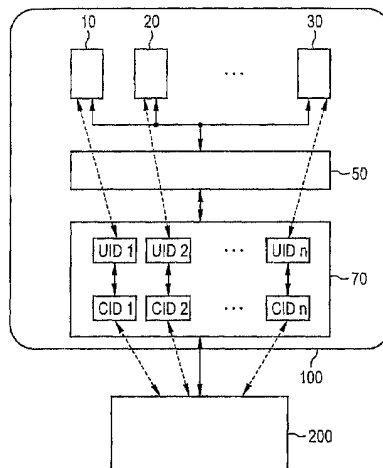
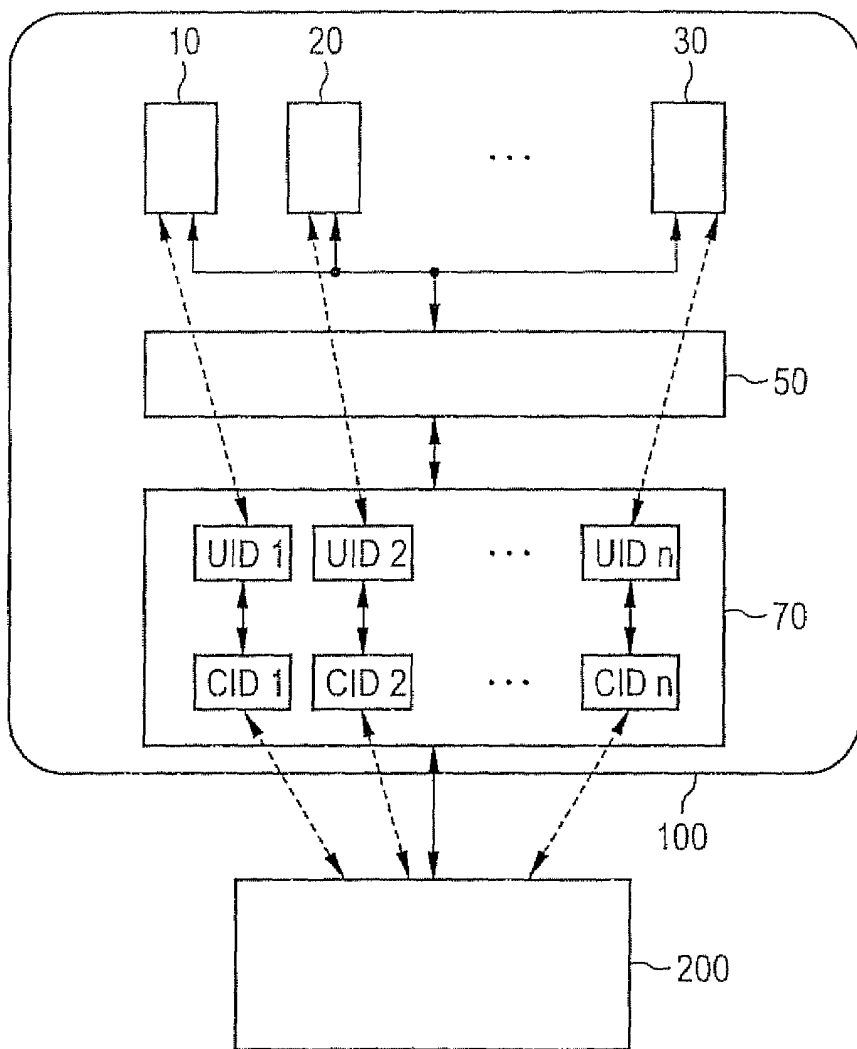
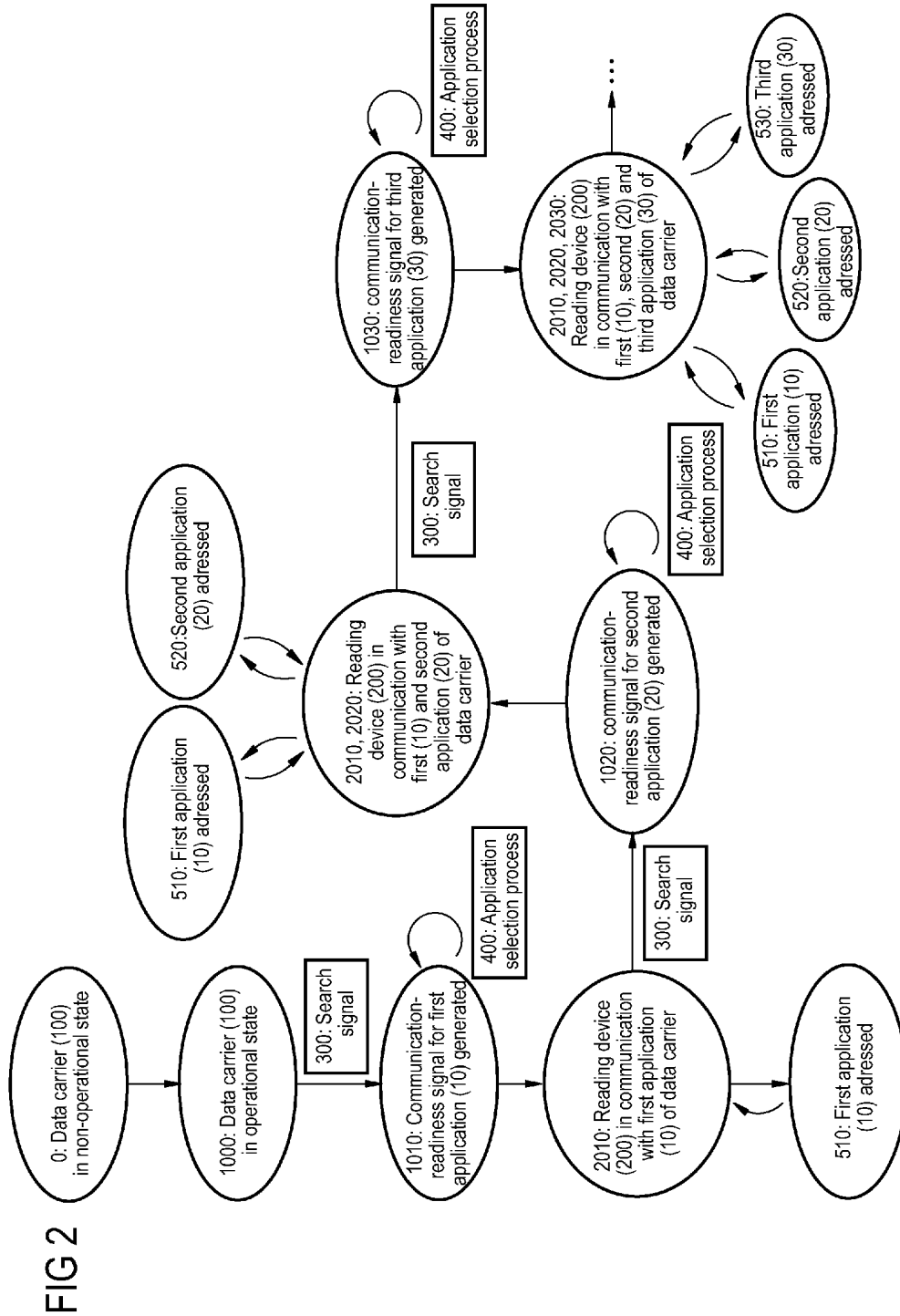


FIG 1





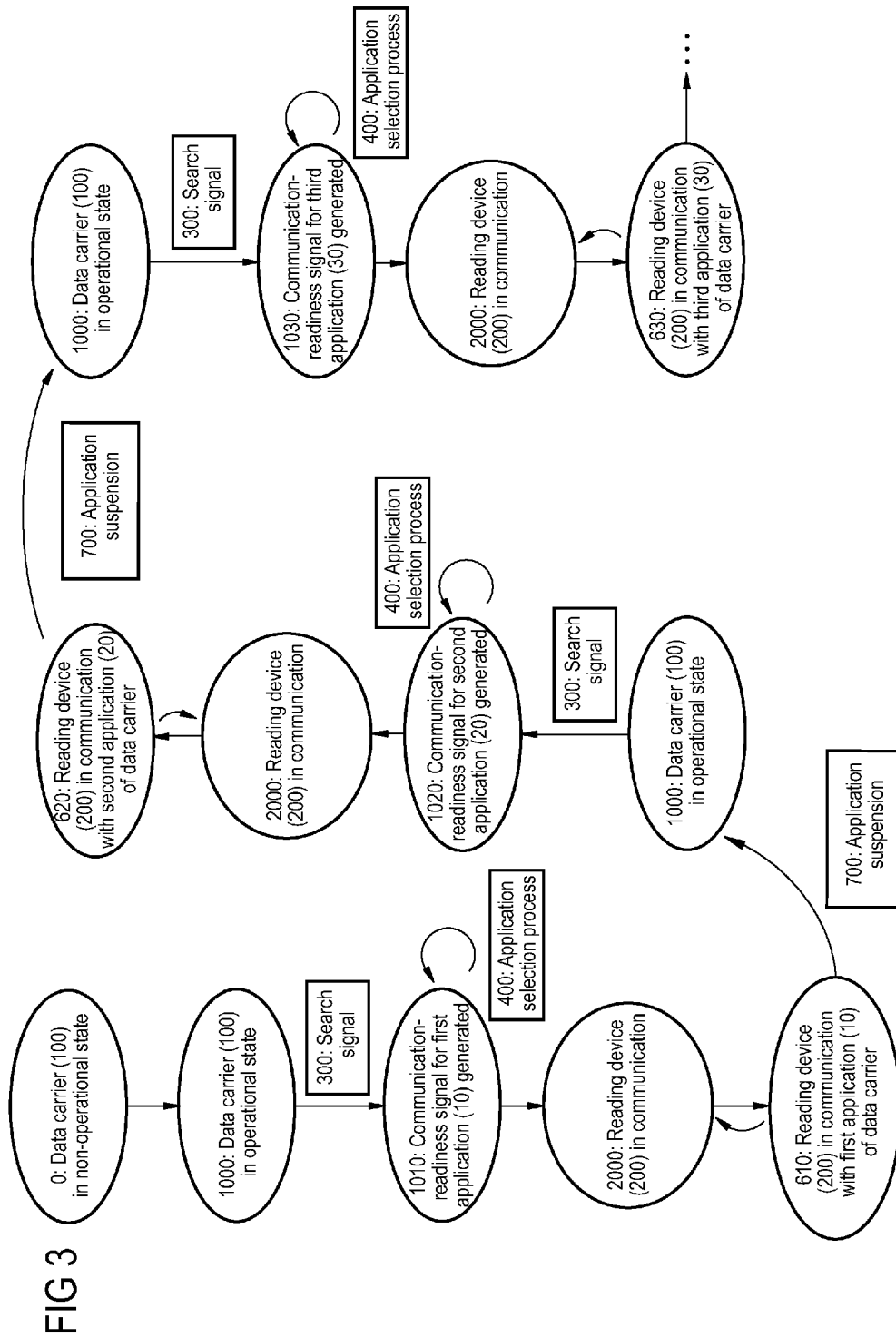


FIG 3

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