

EXHIBIT 4



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Chang et al.

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(54) **WIRELESS DEVICES THAT COMMUNICATE, VIA SHORT RANGE WIRELESS COMMUNICATION, WITH A MOBILE CLIENT DEVICE FOR ESTABLISHING SERVICES OF THE WIRELESS DEVICE WITH A SERVER OVER THE INTERNET**

(58) **Field of Classification Search**
None
See application file for complete search history.

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(57) **ABSTRACT**

A wireless device that includes at least a wireless communication unit, which is compatible with at least a protocol within IEEE 802.11 standards, for establishing a wireless connection with a server over a network is herein disclosed and enabled. To connect the wireless device with the server, the wireless device may first establish short range wireless communication with a client device, such as a smart phone. The wireless device may exchange data or information with the client device via the short range wireless communication; and the wireless device may implement an authentication procedure for detecting authentication information. Thereafter, the wireless device connects to the server over the Internet for accessing a service provided by the server. The accessing of the service may require authentication information on the wireless device, and the accessing of the

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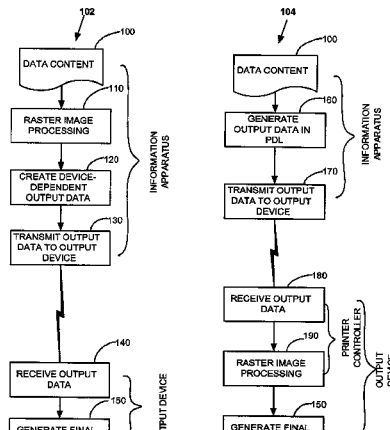
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(63) Continuation of application No. 10/053,765, filed on Jan. 18, 2002, now Pat. No. 9,836,257, and a
(Continued)

(51) **Int. Cl.**
G06F 3/12 (2006.01)
H04W 76/10 (2018.01)
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CPC **G06F 3/1236** (2013.01); **G06F 3/122** (2013.01); **G06F 3/1203** (2013.01);
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service is subsequent to the wireless device having implemented the authentication procedure at the wireless device.

20 Claims, 14 Drawing Sheets

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(51) **Int. Cl.**

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