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(54) Title: MAGNETIC STRIPE READING USING MOBILE MAGNETOMETERS

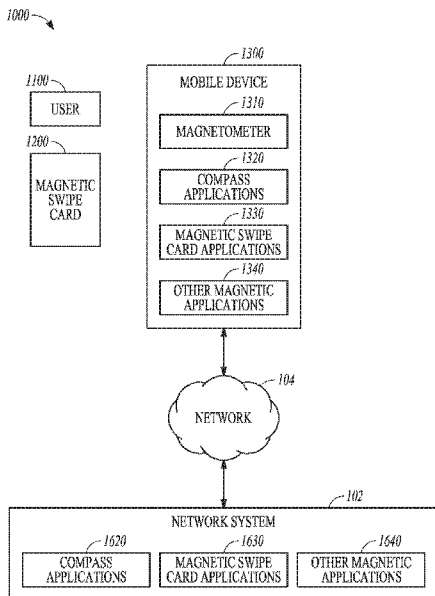
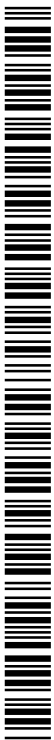


FIG. 1

(57) Abstract: Technology for reading magnetic information by a mobile device is presented. The mobile device comprises a housing having an integrated surface for swiping a magnetic swipe card and a magnetometer, positioned within the housing, for detecting direction and strength of magnetic fields to read magnetic information from a variety of sources and to produce digital magnetometer output signals. The digital magnetometer output signals represent magnetic information derived from the magnetic swipe card and from the Earth's magnetic fields (or other sources). Each of the digital magnetometer output signals has a magnitude related to the strength of the detected magnetic fields. The mobile device determines at least some of the digital magnetometer output signals representing the magnetic information derived from the magnetic swipe card and/or the Earth's magnetic fields and provides that information to a magnetic card application for processing.





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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06K 19/067 (2017.01)
CPC - G06K 19/06187; 19/06206; G06Q20/4018; 20/4093

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

See Search History Document

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

See Search History Document

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

See Search History Document

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y --- A	US 7,059,520 B1 (Shtesl) 13 June 2006 (13.06.2006); entire document; especially col 5-6	1-3, 6-7, 10-12, 17, 19/(10-12) ----- 4-5, 8-9, 13-16, 18, 19/(13-16)
Y --- A	US 2015/0069126 A1 (Leon) 12 March 2015 (12.03.2015); entire document. especially para [0101].	1-3, 6-7, 10-12, 17, 19/(10-12) ----- 4-5, 8-9, 13-16, 18, 19/(13-16)
Y --- A	US 2015/0177020 A1 (An et al.) 16 July 2015 (16.07.2015); entire document; especially para [0024].	2-3, 6, 12, 17, 19/(12) ----- 8, 18

Further documents are listed in the continuation of Box C.

See patent family annex.

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"&" document member of the same patent family

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