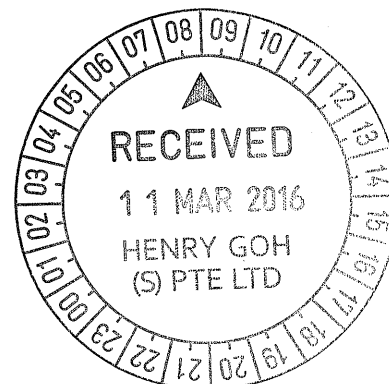


In reply please quote our reference

Your reference: SP-006281
Our reference: 2016/18202621254T
Date: 10 March 2016
Writer's direct number: 63302748 / 63302750 (Ms Umarani)

HENRY GOH (S) PTE LTD
P.O. BOX 183
TOA PAYOH CENTRAL POST OFFICE
SINGAPORE 913107



Dear Sir/Madam,

Patent Application No.: 11201403510X
Title of invention: SYSTEM, METHOD, AND APPARATUS FOR ELECTRONIC
PATIENT CARE
Applicant(s): DEKA PRODUCTS LIMITED PARTNERSHIP

NOTICE OF ELIGIBILITY FOR GRANT

The Examination Report for this application has been established and a copy of it is attached.

Your attention is drawn to the provisions of the Patents Act and Patents Rules for action(s) that may be taken in relation to the report received. In particular, you may wish to proceed to pay the fee for issuance of the certificate of grant by **10 May 2016**, failing which will result in the patent application being refused.

Thank you.

Ms Jennie Ong
for Registrar of Patents
Singapore

Encl: Examination Report - 11201403510X-ERT-Examination Report

Examination Report

Application No.

11201403510X

Application filing date 21 December 2011	Examiner's Reference Number SE 2016 00174n
	(Earliest) Priority Date
International Patent Classification (IPC) (as indicated in the search report) G06F 21/53 (2013.01); G06F 19/00 (2011.01); A61B 5/00 (2006.01); G06Q 50/24 (2012.01)	

1. This Examination Report under Section 29(5) of the *Patents Act* with effect from 14/02/2014 consists of a total of 12 pages.

2. This report contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Unity of invention
- V ☒ Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Defects in the form or contents of the application
- VII ☐ Clarity, Clear and Complete Disclosure, and Support
- VIII ☐ Double patenting

3. The search report used was issued by the Danish Patent and Trademark Office, and the date of completion is 16/12/2014.

4. This report does not contain any unresolved objection.

Date of submission of the request to the Intellectual Property Office of Singapore: 10/09/2014	Date of Examination Report: 26/02/2016
The Danish Patent and Trademark Office Helgeshøj Allé 81 DK-2630 Taastrup Denmark Tel. No.: +45 4350 8000 Fax No.: +45 4350 8001	Authorized Officer Ole G. Buus

Examination Report

Application No. 11201403510X
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I. Basis of the report

1. This report has been drawn on the basis of:

- ☐ the application **as originally filed**.
- ☒ the **description**,
page(s) 1-173 , as originally filed
- ☒ the **claim(s)**,
no(s) 1-38 , filed with the response to the written opinion dated 19/01/2016
- ☒ the **drawing(s)**,
page(s) 1-131 , as originally filed
- ☐ the **sequence listing**,
page(s) <insert page no.> , as originally filed
page(s) <insert page no.> , filed with the PCT Article 34 amendment dated <insert date>
page(s) <insert page no.> , filed as replacement sheet(s) dated <insert date>
page(s) <insert page no.> , filed as amendment sheet(s) dated <insert date>
page(s) <insert page no.> , filed with the response to the written opinion dated <insert date>
- ☒ and in consideration of the **response to the written opinion(s)** dated
17/06/2015
19/01/2016
- ☐ and with reference to the **search and examination results** prepared by the
<insert ASPEC/PPH Office> dated <insert date>
2. ☐ This report has been established based on the exclusion of additional matter beyond the earlier application, as indicated in the supplemental box.
3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the supplemental box.
4. Additional observations, if necessary:

Examination Report

Application No.

11201403510X

Supplemental box
(Continuation of Box I)

Examination Report

Application No.

11201403510X

II. Priority

Priority has been checked and the priority date(s) of the earlier relevant application(s) claimed under section 17 of the *Patents Act*:

☐ is/are valid for all claim(s) no. : < Insert claim no.>

☐ is/are valid for claim(s) no. <Insert claim no.> and is/are invalid for claim(s) no. <insert claim no.>

<insert explanation/reasoning on why the priority claim is found to be invalid>

Thus for the purpose of this report, the filing date of the application will be taken to be the relevant date for claim(s) no. <insert claim no.>

☐ is/are invalid for all the claim(s) no.: <insert claim no.>

<insert explanation/reasoning on why the priority claim is found to be invalid>

Thus for the purpose of this report, the filing date of the application will be taken to be the relevant date for claim(s) no. <insert claim no.>

☐ This report has been established as if no priority had been claimed due to the failure to furnish within the prescribed time limit the requested

☐ copy of the earlier application whose priority had been claimed.

☐ translation of the earlier application whose priority had been claimed.

Examination Report

Application No.

11201403510X

III. Non-establishment of report with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-obvious), or to be industrially applicable have not been and will not be examined in respect of:

- ☐ the entire application
- ☐ claim(s) no(s) <Insert claim no>

because

- ☐ the application, or claim(s) no. is (are) so unclear that no meaningful report could be formed. In particular:

<insert comments>

- ☐ claim(s) no. <insert claim no.> is (are) so inadequately supported by the description that no meaningful report could be formed:

<insert comments>

- ☐ no search report has been established for claim(s) no. : <insert claim no.>

<insert comments>

- ☐ the application, or claim(s) no. <insert claim no.> is (are) regarded to encourage offensive, immoral or anti-social behaviour:

<insert comments>

Examination Report

Application No.

11201403510X

IV. Unity of invention

1. There are multiple inventions in this application, as follows:

2. Consequently, this report has been established in respect of the following parts of the application:

- ☐ all parts
- ☐ the parts relating to claim(s) no. <insert claim no>

Examination Report

Application No.

11201403510X

**V. Reasoned statement with regard to novelty, inventive step or industrial applicability;
Citation and explanation supporting such statement**

1. Statement with regard to novelty, inventive step or industrial applicability

Novelty (N)	Claim(s)	<u>1-38</u>	YES
	Claim(s)	_____	NO
Inventive Step (IS)	Claim(s)	<u>1-38</u>	YES
	Claim(s)	_____	NO
Industrial applicability (IA)	Claim(s)	<u>1-38</u>	YES
	Claim(s)	_____	NO

2. Citations and explanations:

D1: US 2011/0282168 A1 (WEISS et al.), Nov. 17, 2011, see paragraphs 10, 18-26, 35-56 and figures 1-6.

Novelty (Section 14 of the *Patents Act*)

D1 discloses in fig. 1 and paragraph 10 “a block diagram of a health monitoring system 100 in accordance with one embodiment of the present disclosure. Health monitoring system 100 includes a health monitoring server 102, a health monitoring device 104, and a clinician system 106, each connected to a network 110. The network 110 is a communications network operable to transfer information between connected devices. In an embodiment, the network 110 is a packet-switched wide-area network, such as the Internet, that provides a communication backbone for computer devices, including portable devices. It will be appreciated that network 110 can include one or more networks operated by different service providers. For example, network 110 can include one or more wide area networks operated by a communications service provider, and one or more local area networks, operated by a home or business user”.

D1 discloses in fig. 2 a health monitoring device 204 comprising [paragraph 19] “input/output devices/sensors 220, 222, and 224 (hereinafter referred to as sensors 220, 222, and 224), a browser program 226, device drivers 228, a sensor control program 230, and a network interface 232”.

D1 then discloses [paragraph 20] that, in an embodiment, “one or more of the sensors 220-224 is a physically detachable sensor that can be attached to the health monitoring device 204 via an interface port, such as a universal serial bus (USB) connection or other port. Further, one or more of the sensors 220-224 can communicate with the health monitoring device wirelessly, via a wireless connection that complies with a BLUETOOTH protocol, 802.11 protocol, ANT, ANT+, Zigbee, or other wireless protocol”. In this embodiment sensors 220-224 can be regarded as equivalent to the “patient-care device” described in the independent claims of your application.

In the same embodiment the browser program 226, device drivers 228, a sensor control program 230, and a network interface 232 constitute a separate module which can be regarded as equivalent to the “Hub configured to monitor a patient-care device” disclosed in the claims of your application.

Examination Report

Application No.

11201403510X

V. Reasoned statement with regard to novelty, inventive step or industrial applicability; Citation and explanation supporting such statement

D1 then in figure 4 discloses a more detailed diagram of the “Hub configured to monitor a patient-care device” of figure 2 including a “Sandbox”. In [paragraph 45], D1 discloses that “In an embodiment, the security parameters 482 are set so that the browser program 426 is sandboxed from the device drivers 428 and the sensor control program 420. That is, the browser program 426 is restricted so that it cannot communicate with these modules, except by communicating through the health monitoring server 102 as described. Thus, the security module 480 isolates the browser program 426 such that any interactions between the browser and the device drivers 428 are mediated by the health monitoring server 102”.

In fig. 5 and paragraph 46, D1 discloses “a flow diagram of a method of controlling a health monitoring device in accordance with one embodiment of the present disclosure. At block 502, the health monitoring server 102 receives a request from the health monitoring device 104 to take a particular measurement. This request can be received based on a user's interaction with the health monitoring device 104, based on a periodic or scheduled time to take the measurement or the like. At block 504, the health monitoring server 102 receives authentication information from the health monitoring device 104. The authentication information can be information that identifies the device itself, the device user, or any combination thereof. Accordingly, the authentication information can be password or other security information (such as a private key) associated with a particular user, device identification information, such as a serial number or private key, that identifies the health monitoring device 104, or any combination thereof.”

In accordance with the above, D1 discloses:

A system for electronic patient care, the system comprising:

- a hub configured to monitor a patient-care device,
- the hub comprising: an operating system component configured to access at least one of a hardware resource (fig. 4 #428) of the hub and
- a software resource of the hub (fig. 4 #432, #430); and a sandbox component (fig. 4 #480) configured to control the access to the at least one of the hardware resource and the software resource;
- wherein the hub is further configured to identify the patient-care device (fig. 5) and execute an application to monitor the patient-care device, and wherein the hub executes the application within the sandbox component such that the application accesses the at least one of the hardware resource and the software resource through the sandbox component
- wherein the hub is further configured to control the patient-care device (fig. 4 #428, #430).

The subject matter of independent claims 1, 8, 15, 22, 29 and 31 differs from D1 by describing that the sandbox component is configured to prioritize access to the at least one of the hardware resource and software resource.

Because of this the subject matter of independent claims 1, 8, 15, 22, 29 and 31 and the dependent claims 2-7, 9-14, 16-21, 23-28 and claim 32 has novelty over D1.

The subject matter of independent claim 33 differs from D1 by describing that if multiple applications request access to an alarm device or variable that indicates an alarm condition, the sandbox component is configured to prioritize the sources of the requests and generate a prioritized list of alarm causes.

Because of this the subject matter of independent claim 33 and the dependent claims 34-38 has novelty over D1.

Examination Report

Application No.

11201403510X

**V. Reasoned statement with regard to novelty, inventive step or industrial applicability;
Citation and explanation supporting such statement**

Inventive step (Section 15 of the *Patents Act*)

We have not found any relevant prior art describing that the sandbox component is configured to prioritize access to the at least one of the hardware resource and software resource.

We consider that the person skilled in the art of "systems for electronic patient care" would not be inspired by the prior art or his specialist knowledge to suggest the solution mentioned in independent claims 1, 8, 15, 22, 29 and 31 of your application.

Because of this the subject matter of independent claims 1, 8, 15, 22, 29 and 31 and the dependent claims 2-7, 9-14, 16-21, 23-28 and claim 32 has inventive step over the prior art.

We have further not found any relevant prior art describing that if multiple applications request access to an alarm device or variable that indicates an alarm condition, the sandbox component is configured to prioritize the sources of the requests and generate a prioritized list of alarm causes.

We consider that the person skilled in the art of "systems for electronic patient care" would not be inspired by the prior art or his specialist knowledge to suggest the solution mentioned in independent claim 33 of your application.

Because of this the subject matter of independent claim 33 and the dependent claims 34-38 has inventive step over the prior art.

Industrial applicability (Section 16 of the *Patents Act*)

The subject matter of claims 1-38 has industrial applicability.

Examination Report

Application No. 11201403510X
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VI. Defects in the form or contents of the application

The following defects in the form or contents of the application have been noted:

<insert defects>

Examination Report

Application No.

11201403510X

VII. Clarity, Clear and Complete Disclosure, and Support

The following observations on the clarity of the claim(s), on the question whether the disclosure is clear and complete, or on the question whether the claim(s) is (are) supported by the description, are made:

<insert observations>

Examination Report

Application No.

11201403510X

VIII. Double patenting

Double patenting under Rule 46(1)(f) of the *Patents Rules*

The following observations on the question whether there is any other application or any earlier grant of a patent for the same invention, with the same priority date, filed by the same applicant or his successor in title are made:

<insert observations>