Title: COLLECTING AND ANALYZING SURFACE WOUND DATA

Abstract: A 3D surface wound, injury, and personal protective equipment (PPE) data entry system provides an easily usable graphical user interface through which an examiner can objectively record data relating to surface wounds and injuries sustained by a subject human, as well as PPE used when the wounds/injuries were sustained. The system includes a 3D human model onto which the examiner draws the surface wound(s) and/or damage to the PPE. The subject human's record is stored in a database of similar records. The database records comprise quantifiable, objective data that is easily compared and analyzed. An analysis tool can aggregate a selected population of human subjects within the database to create wound density information that can be statistically analyzed and/or displayed on a standard 3D human model. Such objective wound density information may facilitate improved medical and/or tactical training, and improved PPE design.
before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report: 27 November 2008
INTERNATIONAL SEARCH REPORT

International application No
PCT/US07/12926

A CLASSIFICATION OF SUBJECT MATTER
PC: A61B ... 223 13-1450 Telephone No (571)272-297 5
Facsimile No (571 ) 273-3201
Form PCT/ISA/210 (second sheet) (April 2007)

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

B FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
US 600/300,306,587,128/920,923,703/6,11,715/762,764,771, 848,849

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

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

C DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>US 2004/0059199 A1 (THOMAS et al) 25 March 2004 (25.03.2004), entire document)</td>
<td>1,2,4,6,9,10,12, 15,16,1</td>
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<tr>
<td>A</td>
<td>US 6,430,430 B1 (GOSCHE) 06 August 2002 (06 08 2002), entire document</td>
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<td>A</td>
<td>US 6,701,174 B1 (Krause et al) 02 March 2004 (02 03 2004), entire document</td>
<td>1-20</td>
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<td>A</td>
<td>US 5,999,840 (GRIMSON et al) 07 December 1999 (07 12 1999), entire document</td>
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</tbody>
</table>

Further documents are listed in the continuation of Box C

D See patent family annex

Further document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

 document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

document member of the same patent family

Date of the actual completion of the international search 27 August 2008 (27 08 2008)

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P O Box 1450
Alexandria, Virginia 223 13-1450
Facsimile No (571 ) 273-3201

Date of mailing of the international search report 30 SEP 2008
**INTERNATIONAL SEARCH REPORT**

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

<table>
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<tr>
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</table>

Form PCT/ISA/210 (continuation of second sheet) (April 2007)
**INTERNATIONAL SEARCH REPORT**

**Box No. II** Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. **Claims Nos**
   - because they relate to subject matter not required to be searched by this Authority, namely

2. **Claims Nos**
   - because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically

3. **Claims Nos**
   - because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 64(a)

**Box No. III** Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Please See Continuation Sheet

1. **As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims**
2. **As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees**
3. **As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos**

4. **No required additional search fees were timely paid by the applicant** Consequently, this international search report is restricted to the invention first mentioned in the claims, it is covered by claims Nos 1-20

**Remark on Protest**
- **The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee**
- **The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation**
- **No protest accompanied the payment of additional search fees**

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2007)
BOX π1 OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a signal general inventive concept under PCT Rule 13 1

Group I Claims 1-20, drawn to a method of recording human surface wound information on a model
Group π Claim 21, drawn to a method of databasing surface wounds
Group γ Claims 22-25, drawn to a data entry system for surface wounds comprising hardware
Group τV Claims 26-38, drawn to a method of analyzing a database of surface wounds
Group V Claims 39-44, drawn to a method of recording damage to personal protective equipment on a model
Group VI Claims 45-48, drawn to a data recording system for personal protective equipment damage comprising hardware
Group VII Claims 49-56, drawn to a method of analyzing personal protective equipment damage

The inventions listed as Groups I - VII do not relate to a single general inventive concept under PCT Rule 13 1 because, under PCT Rule 13 2, they lack the same or corresponding special technical features for the following reasons The inventions listed as Groups I - VII do not relate to a single general inventive concept under PCT Rule 13 1 because, under PCT Rule 13 2, they lack the same or corresponding special technical features for the following reasons the grouped inventions comprise substantially dissimilar and structurally divergent subject matter that lacks unity in that the grouped inventions separately claim for both surface wounds sustained by humans and damage sustained by personal protective equipment methods of recording information, methods of databasing information, hardware for inputting information, and methods of analyzing inputted information In addition the same or corresponding special technical feature which appears to be the unifying inventive feature, the recording of a surface wound or surface damage, is a well known concept related to medical practitioners, forensic experts, and/or autopsy pathologists