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(54) **Title:** BIOPHYSICAL VIRTUAL MODEL DATABASE AND APPLICATIONS

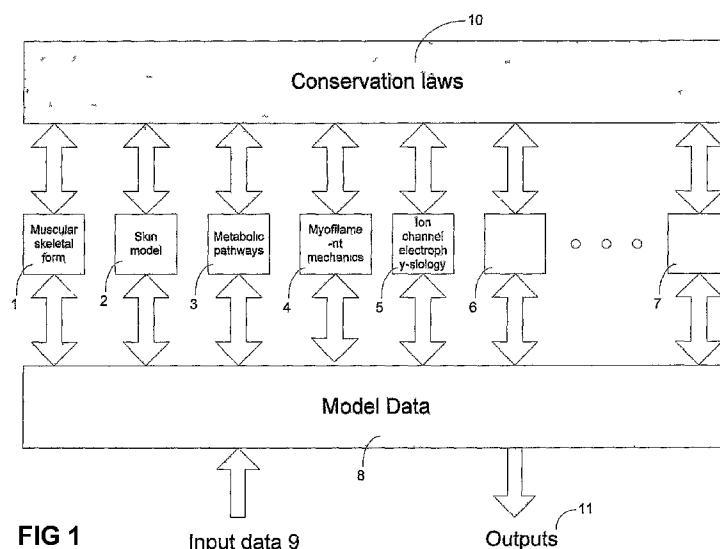


FIG 1

(57) **Abstract:** A biophysical virtual model of a body or body section of a human subject contains measured parameter values, scan data and images from surface or full body imaging systems, and also descriptive and subject identification data. Data in the model are applied to customize external objects ergonomically to fit a subject, by adjustment or by selection when the objects are configured for one or a group of subjects. The database can be centralized and/or mobile devices carried by users can supply model data to external apparatus. Where a parameter value needed for a subject is unknown, the statistical distribution of the database of subjects and the correlation of parameters can supply a probable value and level of certainty. In connection with values that are known for an individual, complexities inherent in the combination of plural parameters can be collected in the model and used in later security screens to confirm the identity of a subject.



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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
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C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
X	US 2002/007294 A1 (BRADBURY THOMAS J [US] ET AL) 17 January 2002 (2002-01-17) paragraph [0013] -paragraph [0089]; figure 2	1-32
A	----- BATTIATO ET AL.: "3D CT Segmentation for Clinical Evaluation of Knee Prosthesis Operations" PROCEEDINGS OF 4TH CONFERENCE EUROGRAPHICS ITALIAN CHAPTER, 22 February 2006 (2006-02-22), - 24 February 2006 (2006-02-24) XP002482001 the whole document -----	1-32
D Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
Special categories of cited documents :		
'A' document defining the general state of the art which is not considered to be of particular relevance 'E ¹ ' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed	'T' later 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 'Y' 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	
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002007294 A1	17-01-2002	US 2002059049 A1	16-05-2002