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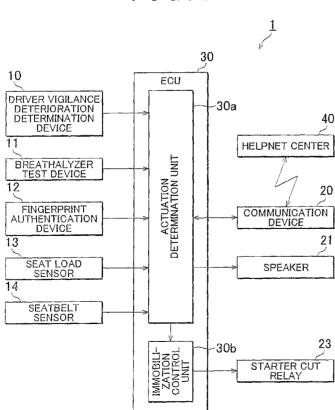
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[Continued on next page]

(54) Title: BREATHALYZER TEST DEVICE

FIG.1



(57) Abstract: A breathalyzer test device (1) includes vigilance detecting means (10) for detecting the vigilance of a test subject, and breathalyzer test means (11, 30) for performing a breathalyzer test on the subject based on the vigilance detected by the vigilance detecting means (10).



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A. CLASSIFICATION OF SUBJECT MATTER INV. G01N33/497 G01N3 G01N33/98 B60K28/06 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) G08B G01N A61B B60K Documentation 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 practical, search terms used) EPO-Internal, WPI Data C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 3 890 826 A (INOSE FUMIYUKI ET AL) 1 - 1024 June 1975 (1975-06-24) column 1, lines 36-45 US 6 927 694 B1 (SMITH RAYMOND PAUL [US] Α 1 - 10ET AL) 9 August 2005 (2005-08-09) column 23, lines 52-54 US 2006/237252 A1 (MOBLEY LARRY J [US] ET 1 - 10Α AL) 26 October 2006 (2006-10-26) paragraphs [0008], [0009] ES 2 172 447 A1 (GONZALEZ SERRANO MARTIN 1-10 BLAS [ES]) 16 September 2002 (2002-09-16) the whole document Further documents are listed in the continuation of Box C. See patent family annex. Special categories of cited documents: "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 \*A\* document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone \*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) "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. "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 07/01/2009 18 December 2008 Authorized officer Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040 Wisnicki, Michal Fax: (+31-70) 340-3016

### INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 3890826	A	24-06-1975	JP JP JP	862252 C 48094125 A 51035286 B	30-05-1977 04-12-1973 01-10-1976
US 6927694	B1	09-08-2005	NONE		
US 2006237252	A1	26-10-2006	CA EP WO	2607502 A1 1874579 A1 2006116186 A1	02-11-2006 09-01-2008 02-11-2006
ES 2172447	A1	16-09-2002	NONE		