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(54) Title: PRESSURE SENSITIVE AUTOMATIC LAMENESS DETECTION SYSTEM FOR CATTLES

(57) Abstract: This invention is about the pressure sensitive automatic lameness detection system for cattles that's developed for early detection of lameness in cattle breeding and its' characteristic is being consisted of process steps of independent platforms (2) detecting the weight applied on surface (4), weight detectors (1) converting the weight applied on independent platforms (2) they're connected to into electric signals (5), collecting the signal data (6) from weight detectors (4) with signal convertor control hardware, transferring collected data to computer environment (7), processing the data transferred to computer environment and lameness scoring being generated (8) by artificial intelligence algorithm, determining lameness (9) as a result of the generated scoring, displaying the scoring results (10) on computer screen to user, informing (12) priorily assigned officials via SMS, e-mail or push-notification methods in cases of high lameness values detected by artificial intelligence algorithm, records being recorded to database registry system (11) and accessing the records (13) through local network or internet via the mobile application using tablet or smartphone.



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## INTERNATIONAL SEARCH REPORT

International application No.

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<b>A. CLASSIFICATION OF SUBJECT MATTER</b> A61B 5/103 (2006.01)i; A01K 29/00 (2006.01)i  According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b>  Minimum documentation searched (classification system followed by classification symbols) A61B 5/103; A01K 29/00  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched EPODOC, WPI,  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0191640 A1 (UNIV MARYLAND [US]) 06 December 2001 (2001-12-06) Abstract; Description, page 3 para. 2 and 4, page 7 para. 2 and 3, page 9 para. 3 and 4, page 14 para. 3, page 26 last para., page 30 first and last para., Fig 1-12, especially Fig. 1(a), 1(b) and 1(c)	1-4
A	WO 2006015372 A2 (BIO EQUIDAE LLC [US]) 09 February 2006 (2006-02-09) Abstract; Description, page 4, line 6-9, page 8 line 3-18, Fig. 1-8	1-4
A	WO 2016200564 A1 (LAMPE KYLE [US]) 15 December 2016 (2016-12-15) Description page 1 para. [0002], page 2 para. [0005], page 4 para. [0012], page 18 para. [0093], Fig. 1-12	1-4
A	US 2015080765 A1 (LAMPE KYLE DOUGLAS [US]) 19 March 2015 (2015-03-19) Description, page 1 para. [0007], page 2 para. [0018]; Fig. 1-3b	1-4
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input checked="" type="checkbox"/> See patent family annex.		
<p>* Special categories of cited documents:</p> <p>“A” document defining the general state of the art which is not considered to be of particular relevance</p> <p>“E” earlier application or patent but published on or after the international filing date</p> <p>“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)</p> <p>“O” document referring to an oral disclosure, use, exhibition or other means</p> <p>“P” document published prior to the international filing date but later than the priority date claimed</p> <p>“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</p> <p>“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</p> <p>“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</p> <p>“&amp;” document member of the same patent family</p>		
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**INTERNATIONAL SEARCH REPORT**  
**Information on patent family members**

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