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(54) OPTO-ELECTRIC SYSTEM OF ENHANCED OPERATOR CONTROL STATION PROTECTION

(57) A system for protecting an operator on an aerial work platform (10; 110) from a crushing hazard includes a sensor (e.g.: 402), such as opto-electric sensor, positionable adjacent the control panel area (e.g.: 124). A control system (12) is programmed to control operation of the driving components based on signals from the sensor.

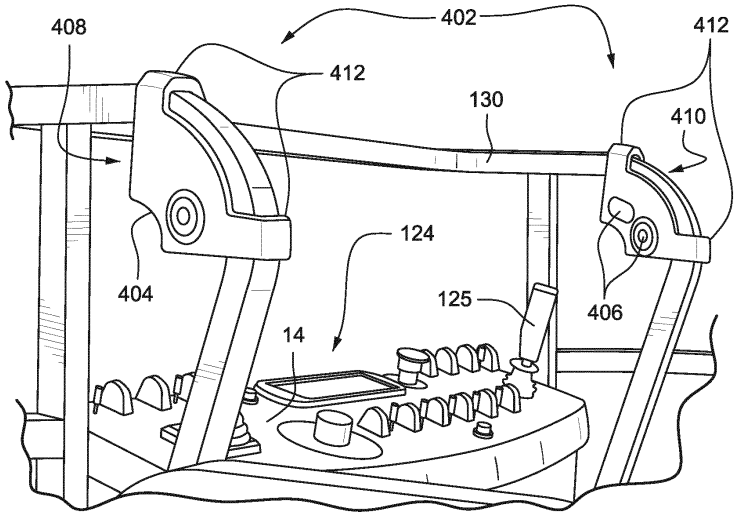

FIG. 12

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PARTIAL EUROPEAN SEARCH REPORT

under Rule 62a and/or 63 of the European Patent Convention. This report shall be considered, for the purposes of subsequent proceedings, as the European search report

Application Number
EP 17 16 3943

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	JP H05 124800 A (JAPANIC CORP) 21 May 1993 (1993-05-21)	15-17	INV. B66F17/00
A	* abstract * * figures 2-5 * * paragraph [0004] - paragraph [0005] * * paragraph [0007] - paragraph [0008] * * paragraph [0013] - paragraph [0014] * * paragraph [0018] - paragraph [0019] * * paragraph [0023] - paragraph [0025] * * claims 1-4 * ----- -/--	18	B66F11/04 B66F9/075 G01S15/93

TECHNICAL FIELDS SEARCHED (IPC)

B66F
G01S
G08G
B60Q

INCOMPLETE SEARCH

The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC so that only a partial search (R.62a, 63) has been carried out.

Claims searched completely :

Claims searched incompletely :

Claims not searched :

Reason for the limitation of the search:

see sheet C

Place of search	Date of completion of the search	Examiner
The Hague	24 October 2017	Guthmuller, Jacques

CATEGORY OF CITED DOCUMENTS

X : particularly relevant if taken alone
Y : particularly relevant if combined with another document of the same category
A : technological background
O : non-written disclosure
P : intermediate document

T : theory or principle underlying the invention
E : earlier patent document, but published on, or after the filing date
D : document cited in the application
L : document cited for other reasons

& : member of the same patent family, corresponding document

EPO FORM 1503 03.82 (P04E07)

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PARTIAL EUROPEAN SEARCH REPORT

Application Number
EP 17 16 3943

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	US 2005/187712 A1 (CALLAGHAN MICHAEL L [US] ET AL) 25 August 2005 (2005-08-25) * figures 1, 2A, 2B, 3A, 3B, 4, 5 * * paragraph [0026] - paragraph [0035] * * paragraph [0037] * * paragraph [0039] - paragraph [0040] * * paragraph [0042] * * paragraph [0044] - paragraph [0045] * * paragraph [0051] * * paragraph [0059] * * paragraph [0061] * * paragraph [0063] - paragraph [0067] * * figures 7, 8, 10 * * paragraph [0048] - paragraph [0050] * * paragraph [0053] - paragraph [0056] * -----	15-17	
A	GB 2 495 158 A (RICHARDS PAUL [GB]) 3 April 2013 (2013-04-03) * abstract * * Proximity sensing means 150 may comprise sensors 151 which may be passive infra-red sensors. * * figures 2-4 * * page 11, line 14 - line 20 * -----	15,16	TECHNICAL FIELDS SEARCHED (IPC)
A	US 2016/075543 A1 (LOMBARDO DAVID W [US] ET AL) 17 March 2016 (2016-03-17) * figure 2 * * The sensing elements 22 can be a single device or multiple devices with the same or complementary technologies... Sensors may be passive (stereo camera, single camera) or active (light detection and ranging (LiDAR), laser detection and ranging (LADAR)... * * abstract * -----	15	
	-/--		

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Application Number
EP 17 16 3943

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	FR 2 836 468 A1 (PINGUELY HAULOTTE [FR]) 29 August 2003 (2003-08-29) * abstract * * figures *	15	
A	CN 202 030 492 U (HUNAN SINOBOOM HEAVY INDUSTRY CO LTD) 9 November 2011 (2011-11-09) * abstract * * figures *	15	
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INCOMPLETE SEARCH
SHEET C

Application Number
EP 17 16 3943

Claim(s) completely searchable:
15-18

Claim(s) not searched:
1-14, 19, 20

Reason for the limitation of the search:

The search has been restricted to the subject-matter indicated by the applicant in his letter of 11-10-2017 filed in reply to the invitation pursuant to Rule 62a(1).

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO. EP 17 16 3943

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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24-10-2017

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US 2016075543 A1	17-03-2016	NONE	
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CN 202030492 U	09-11-2011	NONE	

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82