

(19)



(11)

EP 4 234 473 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3:
11.10.2023 Bulletin 2023/41

(51) International Patent Classification (IPC):
B66C 15/06 (2006.01) B66F 11/04 (2006.01)
B66F 17/00 (2006.01) G08B 21/02 (2006.01)

(43) Date of publication A2:
30.08.2023 Bulletin 2023/35

(52) Cooperative Patent Classification (CPC):
B66F 17/006; B66F 11/044

(21) Application number: **23167479.7**

(22) Date of filing: **14.11.2017**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

- **WELLS, Dax**
MOSES LAKE, 98837 (US)
- **KOROLEV, Denis**
REDMOND, 98052 (US)
- **HIERONYMUS, greg**
MOSES LAKE, 98837 (US)
- **ELY, Mitch**
MT. OMMANEY, 4074 (AU)
- **HAILEY, Adam**
REDMOND, 98052 (US)
- **HISLOP, Chad**
REDMOND, 98052 (US)

(30) Priority: **14.11.2016 US 201662421537 P**
09.11.2017 US 201715808257

(62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC:
17868779.4 / 3 538 471

(71) Applicant: **Terex South Dakota, Inc.**
Watertown, SD 57201 (US)

(74) Representative: **GPI Brevets**
1330, rue Guillibert de la Lauzière
EuroParc de Pichaury
Bât B2
13856 Aix en Provence Cedex 3 (FR)

(72) Inventors:
• **WICKLUND, Chad**
REDMOND, 98052 (US)

(54) SAFETY DEVICE FOR MOBILE WORK PLATFORMS

(57) A land vehicle assembly is provided with a platform for an operator workspace. A control panel is supported upon the platform in electrical communication with the land vehicle. A caution switch is supported upon the platform in electrical communication with the control panel to provide a signal to the control panel indicative of a caution event. A cable is connected to the caution switch to extend across the control panel. The cable is spaced apart from the control panel so that a predetermined force upon the flexible member actuates the caution switch without significantly obstructing the control panel. A manual force upon the flexible member expands the operator workspace. The control panel is programmed to control a mobile operation of the land vehicle, and discontinue the mobile operation of the land vehicle in response to receipt of the caution event signal.

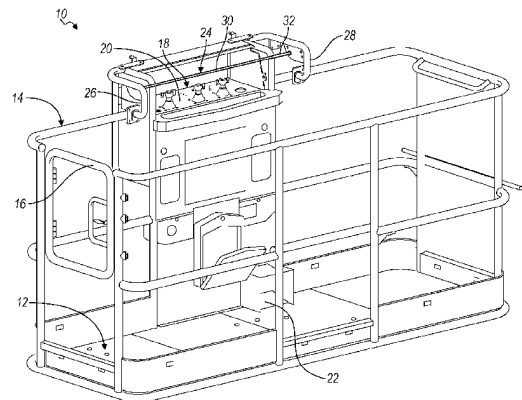


FIG. 1

EP 4 234 473 A3



EUROPEAN SEARCH REPORT

Application Number

EP 23 16 7479

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	WO 2012/001353 A1 (BLUE SKY ACCESS LTD [GB]; GALE KEVIN JOHNATHAN [GB] ET AL.) 5 January 2012 (2012-01-05) * abstract * * page 8, line 17 - line 22 * * page 9, line 11 - page 10, line 8 * * page 11, line 23 - page 12, line 4 * * figures 1-4 *	1, 15	INV. B66C15/06 B66F11/04 B66F17/00 G08B21/02
A	US 3 171 183 A (JOHNSTON JAMES R) 2 March 1965 (1965-03-02) * column 1, line 11 - line 22 * * column 2, line 40 - column 3, line 9 * * figures 1-3, 6, 7, 10 *	1, 15	TECHNICAL FIELDS SEARCHED (IPC) B66F F16B
A	GB 1 519 357 A (DZUS FASTENER EUROPE) 26 July 1978 (1978-07-26) * page 1, line 9 - line 15 * * page 1, line 93 - page 2, line 63 * * figures *	1, 15	
A	US 3 521 216 A (TOLEGIAN MANUEL JERAIR) 21 July 1970 (1970-07-21) * column 3, line 25 - line 28 * * column 6, line 69 - line 72 * * figures 1-4 *	1, 15	
A	US 4 554 420 A (GOLUB GREGORY J [US]) 19 November 1985 (1985-11-19) * abstract * * column 8, line 6 - line 7 * * column 10, line 19 - line 25 * * figures 8, 9 *	1, 15	
A	US 3 921 530 A (BURKHARDT LAWRENCE E ET AL) 25 November 1975 (1975-11-25) * abstract * * figures *	1, 15	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 17 August 2023	Examiner Cabral Matos, A
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	

1 EPO FORM 1503 03.82 (F04C01)



EUROPEAN SEARCH REPORT

Application Number
EP 23 16 7479

5

10

15

20

25

30

35

40

45

50

55

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	<p>US 2 654 869 A (MUDD JR RALPH L) 6 October 1953 (1953-10-06) * abstract * * figures *</p> <p style="text-align: center;">-----</p>	1, 15	
			TECHNICAL FIELDS SEARCHED (IPC)
The present search report has been drawn up for all claims			
Place of search		Date of completion of the search	Examiner
The Hague		17 August 2023	Cabral Matos, A
CATEGORY OF CITED DOCUMENTS		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	
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			

1 EPO FORM 1503 03.82 (F04C01)

ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 23 16 7479

5 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
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

17-08-2023

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2012001353 A1	05-01-2012	AU 2011273177 A1	24-01-2013
		BR 112012033474 A2	29-11-2016
		CA 2804062 A1	05-01-2012
		EP 2588402 A1	08-05-2013
		US 2013313040 A1	28-11-2013
		WO 2012001353 A1	05-01-2012
US 3171183 A	02-03-1965	NONE	
GB 1519357 A	26-07-1978	NONE	
US 3521216 A	21-07-1970	NONE	
US 4554420 A	19-11-1985	CA 1256922 A	04-07-1989
		DE 3587221 T2	05-08-1993
		EP 0160555 A2	06-11-1985
		IN 161861 B	13-02-1988
		JP S612217 A	08-01-1986
		KR 850008757 A	21-12-1985
		US 4554420 A	19-11-1985
ZA 852427 B	27-11-1985		
US 3921530 A	25-11-1975	NONE	
US 2654869 A	06-10-1953	NONE	