



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
09.08.2017 Bulletin 2017/32

(51) Int Cl.:
B61L 5/10 (2006.01)

(43) Date of publication A2:
18.06.2014 Bulletin 2014/25

(21) Application number: **13466034.9**

(22) Date of filing: **10.12.2013**

(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**
Designated Extension States:
BA ME

(71) Applicant: **DT-Vyhybkárna a strojírna, a.s.
797 11 Prostějov (CZ)**

(72) Inventor: **Bayer, Petr
798 14 Olsany u Prostějova (CZ)**

(74) Representative: **Holasova, Hana
Krizova 4
CZ-603 00 Brno (CZ)**

(30) Priority: **13.12.2012 CZ 201227171 U**

(54) **Double-sided stabilizer for movable frog**

(57) Double-sided stabilizer, where is used a double-reversing joint spring mechanism (5) with its hinge (8) of the central joints (7) to be movably connected - so

as to reach the pressure - with the toe (2) of the frog (1) or tongues (3, 3') of the switch (4).

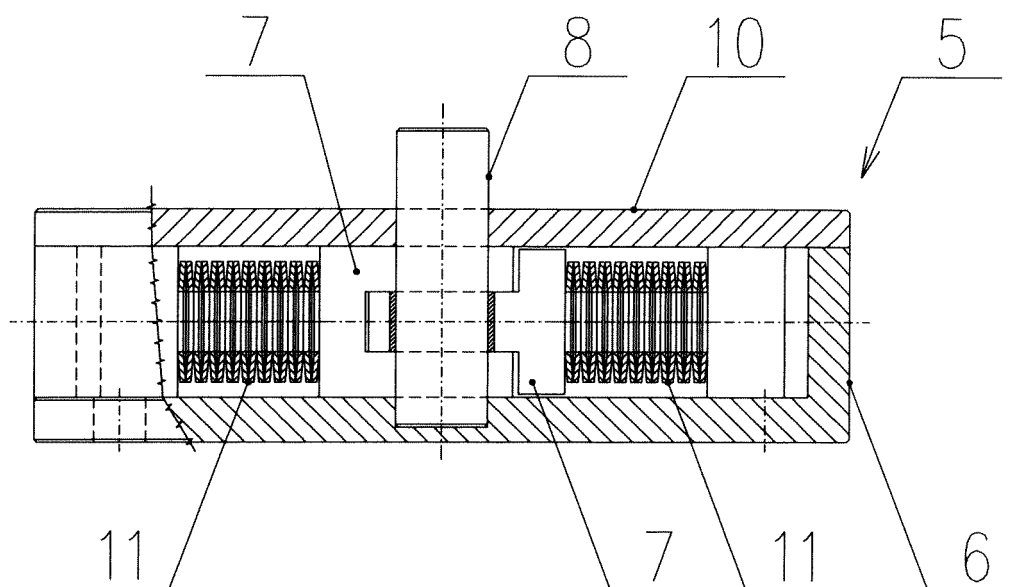


Fig. 1



EUROPEAN SEARCH REPORT

Application Number
EP 13 46 6034

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)
X	WO 94/11578 A1 (RAILEX OY [FI]; LAPPALAINEN JAAKKO [FI]) 26 May 1994 (1994-05-26)	1	INV. B61L5/10
Y	* figures 1-3 * * page 4, paragraph 1 - page 5, paragraph 1 *	2,3	
Y	----- WO 02/055361 A1 (VAE EISENBAHNSYSTEME GMBH [AT]; VAE AG [AT]; SCHNEDL KARL [AT]) 18 July 2002 (2002-07-18) * figure 1 *	2	
Y	----- DE 199 24 427 A1 (BUTZBACHER WEICHENBAU GMBH [DE]) 7 December 2000 (2000-12-07) * figure 1 *	3	

			TECHNICAL FIELDS SEARCHED (IPC)
			B61L
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 27 June 2017	Examiner Janssen, Axel
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 03/02 (P04C01)



Application Number

EP 13 46 6034

5

10

15

20

25

30

35

40

45

50

55

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 13 46 6034

5

10

15

20

25

30

35

40

45

50

55

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1, 2

Frog connection to the double-sided stabiliser using a tenon

2. claims: 1, 3

Switch tongues connection to the double-sided stabiliser
using pulley

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

EP 13 46 6034

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.

27-06-2017

10

15

20

25

30

35

40

45

50

55

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 9411578	A1	26-05-1994	AU	5467194 A		08-06-1994
			FI	925205 A		18-05-1994
			WO	9411578 A1		26-05-1994

WO 02055361	A1	18-07-2002	AT	355215 T		15-03-2006
			AT	411047 B		25-09-2003
			BR	0206359 A		23-12-2003
			CA	2434392 A1		18-07-2002
			CN	1484594 A		24-03-2004
			CZ	20031852 A3		12-11-2003
			DK	1349764 T3		02-07-2007
			EP	1349764 A1		08-10-2003
			ES	2282402 T3		16-10-2007
			HU	0401164 A2		28-10-2004
			JP	3862656 B2		27-12-2006
			JP	2004516994 A		10-06-2004
			PL	201090 B1		31-03-2009
			PT	1349764 E		05-06-2007
			US	2004069911 A1		15-04-2004
			WO	02055361 A1		18-07-2002

DE 19924427	A1	07-12-2000	AT	244175 T		15-07-2003
			AT	316029 T		15-02-2006
			AU	760995 B2		29-05-2003
			CA	2374927 A1		07-12-2000
			CN	1365330 A		21-08-2002
			CZ	20014241 A3		15-05-2002
			DE	19924427 A1		07-12-2000
			DK	1185449 T3		20-10-2003
			EP	1185449 A1		13-03-2002
			EP	1312530 A2		21-05-2003
			ES	2202144 T3		01-04-2004
			ES	2257502 T3		01-08-2006
			HU	0201398 A2		28-08-2002
			PL	352130 A1		28-07-2003
			PT	1185449 E		28-11-2003
			US	6601518 B1		05-08-2003
			WO	0073120 A1		07-12-2000
			ZA	200109724 B		30-04-2003

EPO FORM P0459

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