Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) **EP 0 727 339 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 04.09.1996 Bulletin 1996/36

(51) Int. Cl.⁶: **B61F 5/46**

(43) Date of publication A2: 21.08.1996 Bulletin 1996/34

(21) Application number: 96200425.5

(22) Date of filing: 19.02.1996

(84) Designated Contracting States:

AT BE CH DE DK ES FR GB IT LI NL PT SE

(30) Priority: 17.02.1995 NL 9500315

(71) Applicant: STORK RMO B.V. 1018 MP Amsterdam (NL)

(72) Inventor: Zeevenhooven, Nikolaas Huibert Cornelis Engbertus 3723 GE Bilthoven (NL)

(74) Representative: Eveleens Maarse, Pieter Arnold & Siedsma, Advocaten en Octrooigemachtigden, Sweelinckplein 1 2517 GK Den Haag (NL)

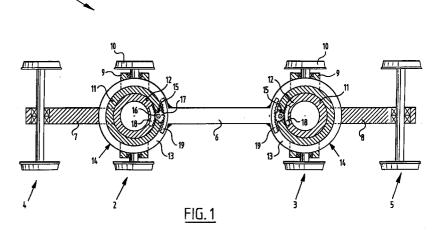
(54) Running gear assembly with minimum play for a rail vehicle with radial adjustment of wheel pairs or wheel sets

(57) The invention relates to a running gear assembly (1) for a rail vehicle comprising a plurality of two-wheeled running gears (2,3), at least one of which is radially steerable using steering levers (6) mutually connecting the running gears (2,3), wherein at least the one steerable running gear (2,3) comprises a ring assembly system formed by at least a first and a second ring, the first of which is connected to a sub-frame forming part of the relevant running gear (2,3) and at least the second ring is connected to one of the steering levers connecting the running gear (2,3) to other running gears (2,3) and that the running gear (2,3) comprises coupling means for mutually coupling the rings and steering

levers such that the wheels forming part of the running gear (2,3) are directed substantially radially.

There is a completely free choice of coupling of the four elements, first, second lever, sub-frame and wheel pair/wheel set, to the three concentric moving rings or groups of rings, the sole proviso being that the forced radial adjustment of the wheel pair/wheel set is achieved.

As a result of these steps the use of hinges is eliminated as far as possible so that the danger of play occurring is as small as possible.





EUROPEAN SEARCH REPORT

Application Number EP 96 20 0425

A A	of relevant passages FP-Δ-2 562 859 (ΔΝΕ ΙΝΩ)		to claim	APPLICATION (Int.Cl.6)	
A	* page 3, line 19 - page figures 1-4 *	18 October 1985 5, line 35;	1	B61F5/46	
	WO-A-85 05602 (OMS OFF N ;VIGLIANI UMBERTO (IT)) * page 6, line 10 - page figures 1,5,6 *	19 December 1985	1		
A	US-A-3 230 899 (T. A. JO 1966 * column 3, line 14 - co figures 6-11 *	· · · · · · · · · · · · · · · · · · ·	1		
A	CH-A-399 522 (SCHWEIZERI AUFZÜGEFABRIK AG) 31 Mar * page 1, line 73 - page figure 1 *	ch 1966	1		
				TECHNICAL FIELDS SEARCHED (Int.Cl.6)	
				B61F B61D	
	The present search report has been draw	vn up for all claims			
		Date of completion of the search 29 May 1996	Examiner Chlosta, P		
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		T : theory or principl E : earlier patent doc after the filing da D : document cited in L : document cited fo	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		