

①⑫

# **EUROPEAN PATENT APPLICATION**

②① Application number: **79300940.8**

⑤① Int. Cl.<sup>3</sup>: **B 61 L 7/08, B 61 L 19/06**

②② Date of filing: **25.05.79**

③⑩ Priority: **30.05.78 GB 2401678**

⑦① Applicant: **WESTINGHOUSE BRAKE AND SIGNAL COMPANY LIMITED, 3 John Street, London WC1N 2ES (GB)**

④③ Date of publication of application: **12.12.79**  
**Bulletin 79/25**

⑦② Inventor: **Norton, David John, Westinghouse Brake And Signal Company Limited, Chippenham Wiltshire SN15 1JD (GB)**

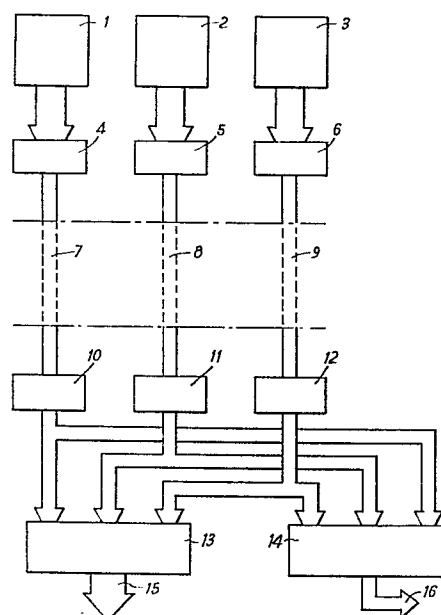
⑧④ Designated Contracting States: **BE CH DE FR NL SE**

⑧⑧ Date of deferred publication of search report: **09.01.80 Bulletin 80/1**

⑦④ Representative: **Turner, Alan Reginald, Westinghouse Brake And Signal Company Limited, Chippenham, Wiltshire, SN15 1JD (GB)**

## ⑤④ **Railway control communication system.**

⑤⑦ An electronic or computer-based railway control system wherein control signals are transmitted between a control or interlocking room and wayside or track equipment by means of time division multi-plexed signals. Several such T.D.M. communication systems are employed in parallel to provide redundancy, and each address location has a majority voting circuit, to determine a correct signal in the event of disagreement between received signals, and an out-of-coincidence circuit to indicate which system is carrying the erroneous signal.





DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.?)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
	<p><u>DE - B - 1 244 229</u> (SIEMENS)</p> <p>* Column 1, line 1 to column 3, line 34 *</p> <p>--</p> <p>GEC JOURNAL OF SCIENCE AND TECHNOLOGY, vol. 40, no. 3, 1973 Wenbley-Middlesex GOLDSBROUGH: "Railway re-signalling for electrification on british railways scottish region" pages 90 to 97.</p> <p>* Page 94, right-hand column, paragraph "Remote control", to page 95, left-hand column, line 8 *</p> <p>--</p> <p>TECHNISCHE RUNDSCHAU, vol 64, no. 16, April 1972, Bern NOCK: "Eisenbahnsteuerungen mit Computern", pages 51 and 53.</p> <p>* Page 53, columns 2 and 3; paragraph "Anwendung bei den Hauptstrecken" *</p> <p>--</p> <p><u>US - A - 3 538 498</u> (GAMES et al.)</p> <p>* Column 2, lines 5 to 19 *</p> <p>--</p> <p><u>US - A - 3 755 628</u> (GAMES et al.)</p> <p>* Abstract *</p> <p>----</p>	<p>1,2</p> <p>1,2</p> <p>1,2</p> <p>5</p> <p>3-5</p>	<p>B 61 L 7/08 19/06</p> <p>TECHNICAL FIELDS SEARCHED (Int.Cl.?)</p> <p>B 61 L 7/08 19/06 21/04 25/06</p> <p>CATEGORY OF CITED DOCUMENTS</p> <p>X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons</p> <p>&amp;: member of the same patent family, corresponding document</p>
<p><input checked="" type="checkbox"/> The present search report has been drawn up for all claims</p>			
Place of search		Date of completion of the search	Examiner
The Hague		18-09-1979	REEKMANS