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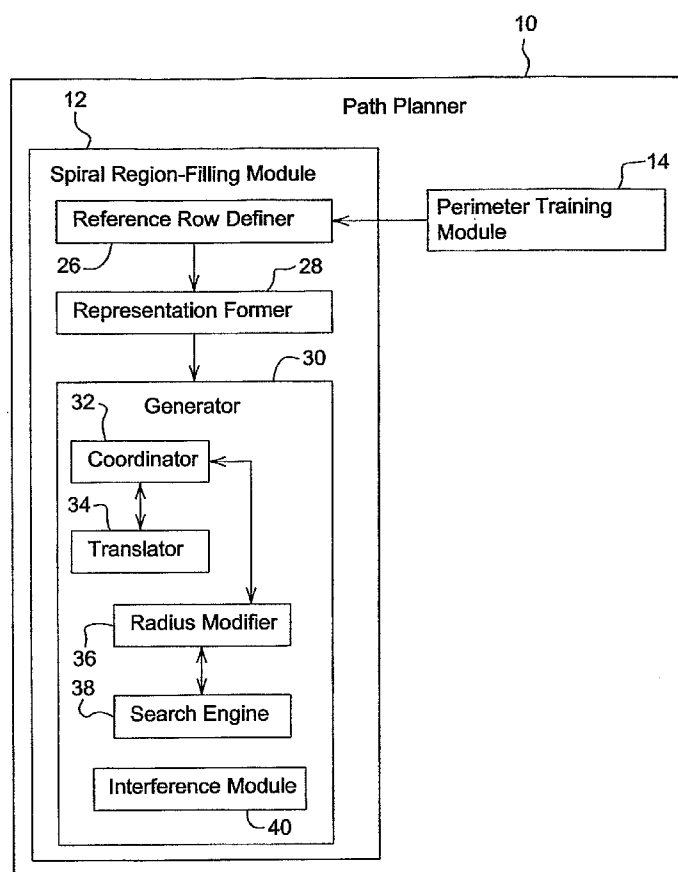
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[Continued on next page]

(54) Title: A PATH PLANNER AND METHOD FOR PLANNING A PATH PLAN HAVING A SPIRAL COMPONENT



(57) Abstract: A method and path planner (10) for planning a path of a vehicle comprising a perimeter training module (14) for identifying a border of a region associated with a work area. A definer (26) for defining a reference row having a reference path that tracks at least a majority of the border. A generator (30) generates tracking rows that track the reference row. The tracking rows comprise at least one inner tracking row and an outer tracking row. Each inner tracking row having at least one inner curve with a lesser radius than an outer tracking row having a corresponding outer curve with a greater radius.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

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USPC: 701/50,41;180/168;172/3,5;56/10.2 F,10.1

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4,967,362 (Schutten et al.) 30 October 1990 (30.10.1990), column 3, lines 10-24; column 6, lines 3-26; columns 7-8, lines 22-36; column 7, lines 1-7; column 3, lines 10-24; column 6, lines 29-68	1-2, 12, 15, 13, 14, 18, 20
Y	US 6,703,973 (Nichols) 09 March 2004 (09.03.2004), columns 9-10, lines 56-33; columns 10-11, lines 34-37	1-3, 9-11, 16, 26-30
Y	US 6,131,069 (Bottinger) 10 October 2000 (10.10.2000), column 4, lines 4-40; column 6, lines 23-56	4, 6, 19, 21, 23
Y	US 6,088,644 (Brandt et al.) 11 July 2000 (11.07.2000), abstract, column 5, lines 4-49; columns 5-6, lines 28-38	7, 8, 24, 25
Y	US 6,240,342 (Fiegert et al.) 29 May 2001 (29.05.2001), columns 4-5, lines 3-14; columns 5-6, lines 47-23; column 7, lines 1-47	17, 31
A	US 4,398,195 (Dano) 09 August 1983 (09.08.1983)	1-4, 6-21, 23-31



Further documents are listed in the continuation of Box C.



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C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5,987,383 (Keller et al.) 16 November 1999 (16.11.1999)	1-4, 6-21, 23-31