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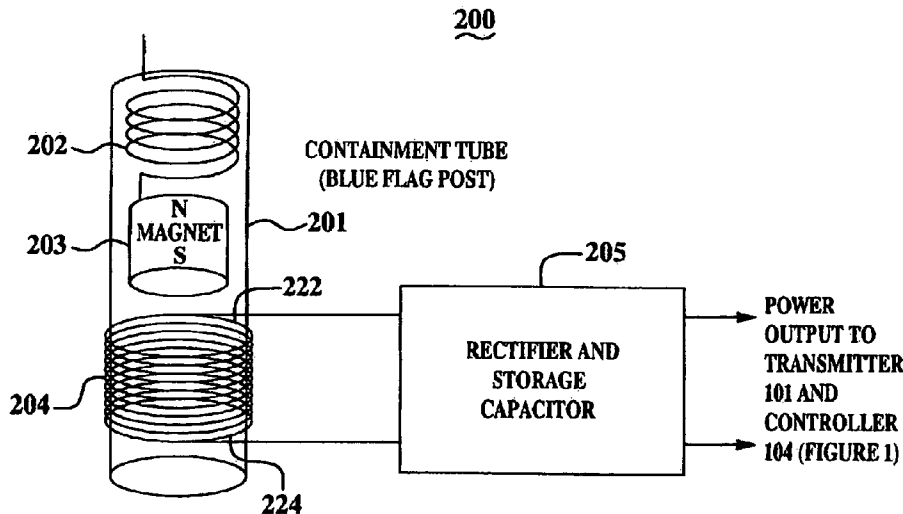
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[Continued on next page]

(54) Title: MONITORING STATUS OF RAILYARD EQUIPMENT USING WIRELESS SENSING DEVICES

POWER SOURCE AND GRAVITY SENSING MECHANISM



(57) Abstract: A wireless position sensing device is provided for monitoring railyard equipment status. The device comprises a gravity sensing mechanism for sensing an angular displacement with respect to a substantially vertical line, and for generating a displacement signal upon sensing a change in angular displacement exceeding approximately 40 degrees. A processing mechanism, operatively coupled to the gravity sensing mechanism, receives the displacement signal. A radio frequency transmitter, responsive to the processing mechanism, transmits a data signal indicative of the angular displacement. The processing mechanism is programmed to activate the radio frequency transmitter upon receipt of the displacement signal. The gravity sensing mechanism is affixed, attached, or mechanically coupled to railyard equipment comprising at least one of a manually operated rail switch or a safety indicator.

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Declarations under Rule 4.17:

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B. FIELDS SEARCHED

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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 practical, search terms used)

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DENNY J ET AL INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS: "COMMUNICATIONS-BASED YARD CONTROL (CB::YCTM) SYSTEM" PROCEEDINGS OF THE 2000 ASME/IEEE JOINT RAILROAD CONFERENCE. NEWARK, NJ, APRIL 4 - 6, 2000, PROCEEDINGS OF THE ASME/IEEE JOINT RAILROAD CONFERENCE, NEW YORK, NY : IEEE, US, 4 April 2000 (2000-04-04), pages 95-110, XP000975081 ISBN: 0-7803-6328-0 the whole document	1-26
A	US 2002/096604 A1 (HAGER MARK ALAN [US] ET AL HAGER MARK ALAN [US] ET AL) 25 July 2002 (2002-07-25) paragraphs [0001], [0007], [0008], [0013], [0014]; figure	14-26

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See patent family annex.

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

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Information on patent family members

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