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(12) **United States Patent**
Dibble

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(54) **BULK MATERIAL HANDLING SYSTEM AND METHOD**

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414/139.1, 139.4, 141.4, 141.6, 139.3,
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(71) Applicant: **RAIL-VEYOR SYSTEMS, INC.**,
Liveley (CA)

See application file for complete search history.

(72) Inventor: **Merton F. Dibble**, Atlantic Mine, MI
(US)

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(73) Assignee: **RAIL-VEYOR SYSTEMS, INC.**,
Liveley, Ontario (CA)

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(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
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(65) **Prior Publication Data**

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(Continued)

Related U.S. Application Data

Primary Examiner — James R Bidwell

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Mar. 25, 2013, now Pat. No. 8,955,667, which is a
continuation-in-part of application No. 13/571,239,
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(74) *Attorney, Agent, or Firm* — Allen Dyer Doppelt
Milbrath & Gilchrist

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(57) **ABSTRACT**

(51) **Int. Cl.**

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- B65G 17/02** (2006.01)
- B65G 67/60** (2006.01)
- B65G 37/00** (2006.01)

A bulk material handling system and method use a horizontal boom frame supporting a conveyor mechanism for bulk material that is slidable relative to the horizontal boom frame. The conveyor mechanism is positioned such that, with bulk material received at a fixed location, or loading axis, on the horizontal boom frame, a portion of the conveyor mechanism will always be positioned to receive bulk material. The horizontal boom frame can also be made rotatable about the loading axis. By rotating the horizontal boom frame and advancing or withdrawing the conveyor mechanism, the discharge point for bulk materials relative to the loading axis can be altered radially and angularly without interrupting the flow of bulk materials through the system. A supply bridge assembly can be employed to bring the bulk materials to the loading axis of the boom.

(52) **U.S. Cl.**

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(58) **Field of Classification Search**

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52 Claims, 6 Drawing Sheets

