ODB DCL500SM16 CDL-Exempt System

The Most Flexible Truck-Mounted Debris Collection System



(58) Field of Classification Search

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(57)

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See application file for complete search history

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U.S. PATENT DOCUMENTS

ABSTRACT

CPC E01H 1/0836; E01H 1/005; A47L 5/36

A47L 9/242; A47L 9/248

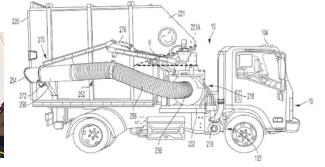
B01D 46/52 406/35 E01H 1/0827

- (54) COMPACT MATERIAL COLLECTION SYSTEM
- (71) Applicant: Old Dominion Brush Company Henrico, VA (US)

(12) United States Patent

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- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.
- (21) Appl. No.: 17/314,760
- (22) Filed: May 7, 2021
 - Related U.S. Application Data
- (60) Provisional application No. 63/109,714, filed on Nov. 4, 2020.
- (51) Int. Cl. E01H 1/08 (2006.01) (2006.01) E01H 1/00 (2006.01) A47L 9/24
- A471. 5/36 (2006.01) (52) U.S. CL E01H L/0836 (2013.01); A47L 5/36 CPC .
 - (2013.01); A47L 9/242 (2013.01); A47L 9/248 (2013.01): E01H 1/005 (2013.01)
- The present disclosure provides a material collection sy tem. The material collection system includes a conduit, a vacuum generator coupled to the conduit, an engine powering the vacuum generator, and a container mounted to a chassis of a vehicle. The vacuum generator generates airflow for drawing material into a material inlet of the conduit. The container receives collected material from the conduit. The material collection system and vehicle can have a gros vehicle weight rating of at or below approximately 26,000
 - 11 Claims, 14 Drawing Sheets



- CDL-Exempt ✓ Labor Resource Flexibility
- Single-Person Operation
 - ✓ Reduced Labor Costs
- In-Cabin Controls
 - ✓ Optimal Safety
- Patented ECO-MODE: Standard
 - ✓ 35% Reduced Fuel Consumption
- Compact Profile High Capacity
 - ✓ Maneuverability in Tight Areas
 - ✓ *Reduced Liability*
 - ✓ 16 Cubic Yard Capacity
- Dual Steering Control: Standard