

JUSTIFICATION AND APPROVAL FOR OTHER THAN FULL AND OPEN COMPETITION

1. Agency and the Contracting Activity: Department of Veterans Affairs (VA), National Cemetery Administration, Contracting Service, 75 Barrett Heights Rd. Suite 309, Stafford, VA 22556
2. Nature and/or description of the action being approved: Two (2) Logan Self-Propelled Dump Trailers for Florida National Cemetery, Bushnell, FL 33513
3. A description of the supplies or services required to meet the agency's need (including the estimated value): (2) Logan Self-Propelled Dump Trailers are required at Florida National Cemetery, delivered FBO destination within 30 Days. See attachment "Logan Dump Trailer Description" for additional descriptive information. The estimated cost is \$42,000.00.
4. An identification of the statutory authority permitting other than full and open competition. The statutory authority for these services is found at FAR Part 6.3. Full and open competition has not been provided based on the following exception:

FAR Subpart 6.302-1(b)(2), "Only one responsible source and no other supplies or services will satisfy agency requirements." The existence of limited rights in data, patent rights, copyrights, or secret processes; the control of basic raw material; or similar circumstances, make the supplies and services available from only one source.

5. Demonstration that the proposed contractor's unique qualifications or the nature of the acquisition requires use of the authority cited. Logan Self-Propelled Dump Trailers are patented (see attached USPTO.# 9,227,545 B1, Date of Patent: January 5, 2016) and are sold exclusively by AXIS Corporation, 314 Water Ave, PO Box 668 Bellefontaine, OH 43311, DUNS 052859949. Florida National Cemetery currently owns two of these devices. Continuity between the equipment used at the Florida National Cemetery and the availability of replacement items is a benefit to NCA. Additional descriptions of the devices' unique features are attached.
6. A description of efforts made to ensure that offers are solicited from as many potential sources as is practicable, including whether a notice was or will be publicized as required by Subpart 5.2 and, if not, which exception under 5.202 applies. Special Notice VA786-16-N-0596 was synopsised on www.fbo.gov from September 21 – 24, 2016, inviting responsible parties interested in responding to submit a capability statement for consideration by the Government. Zero (0) responses were received.
7. A determination by the contracting officer that the anticipated cost to the Government will be fair and reasonable. In accordance with FAR 15.404-1(b)(2), price analysis was conducted based on comparison of proposed prices with prices obtained through market research for the same or similar items, and the offered price is considered fair and reasonable.
8. A description of the market research conducted (see Part 10) and the results or a statement of the reason market research was not conducted.
 - a. The _____ sold on GSA Advantage was considered, however this device is not a dump trailer that can be hitched and towed by a utility vehicle or truck.
 - b. The ordering activity considered the _____, sold by _____ and assessed the _____ capabilities:
 - i. The _____ has too many lower points of contact increasing the chances of striking headstones

- ii. on this cart is a safety issues, and there are more pinch point and getting away from the equipment in a faster and safer manner, if something was to go wrong.
- iii. Replacement parts are not as accessible as the AXIS Company's trailer.
- iv. Hydraulic down rigger to stabilize load is set to far back and will causing cave-ins of gravesite.

9. Any other facts supporting the use of other than full and open competition: N/A
10. A listing of the sources, if any, that expressed, in writing, an interest in the acquisition. None
11. A statement of the actions, if any, the agency may take to remove or overcome any barriers to competition before any subsequent acquisition for the supplies or services required. Acquisition planning and market research will be conducted for subsequent requirements. No barriers are known to exist

I hereby certify that this request for Justification and Approval of other than Full and Open competition is made in good faith, that the supporting data and information are accurate and complete to the best of my knowledge and belief, and that I would not be making this request if it were feasible to fully compete this requirement. I further certify that this request is not the result of lack of advance planning or desire to expend funds while those funds are still available.

Signature
Edward C. Brown,
Maintenance & Operations Foreman
Florida National Cemetery

9-26-2016
DATE

Contracting officer's certification that the justification is accurate and complete to the best of the contracting officer's knowledge and belief.

David J. Dixon
Contracting Officer
National Cemetery Administration

9/26/2016
DATE

Concur X Non Concur _____

Proprietary quotations, technical data and drawings have been redacted by the Contracting Officer per FAR 6.305(e)



US009227545B1

(12) **United States Patent**
Oldiges et al.

(10) **Patent No.:** **US 9,227,545 B1**
(45) **Date of Patent:** **Jan. 5, 2016**

- (54) **SELF-PROPELLED DUMP TRAILER WITH SEPARATOR GATE**
- (71) Applicant: **AXIS CORPORATION**, Bellefontaine, OH (US)
- (72) Inventors: **Matthew C. Oldiges**, Anna, OH (US); **Thomas N. Oldiges**, Bellefontaine, OH (US)
- (73) Assignee: **AXIS CORPORATION**, Bellefontaine, OH (US)

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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 7 days.

FOREIGN PATENT DOCUMENTS

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OTHER PUBLICATIONS

James D. Julia, Inc., "Outstanding Scale Model of the Autocar Military Transport Vehicle", http://jamesdjulia.com/auctions/view_lot_info.asp?lot=3257-335, Nov. 27, 2012.

* cited by examiner

Primary Examiner — Stephen Gordon
(74) Attorney, Agent, or Firm — Thomas E. Lees, LLC

(21) Appl. No.: **14/314,140**

(22) Filed: **Jun. 25, 2014**

(51) **Int. Cl.**
B60P 1/16 (2006.01)
B60P 1/04 (2006.01)
B62D 59/04 (2006.01)

(52) **U.S. Cl.**
CPC . **B60P 1/16** (2013.01); **B60P 1/045** (2013.01);
B62D 59/04 (2013.01)

(58) **Field of Classification Search**
CPC B60P 1/16; B60P 1/045; B62D 59/042
USPC 298/1 C, 2, 5, 6, 22 R, 23 R, 17 S;
180/19.1, 19.2, 19.3, 211; 280/47.24
See application file for complete search history.

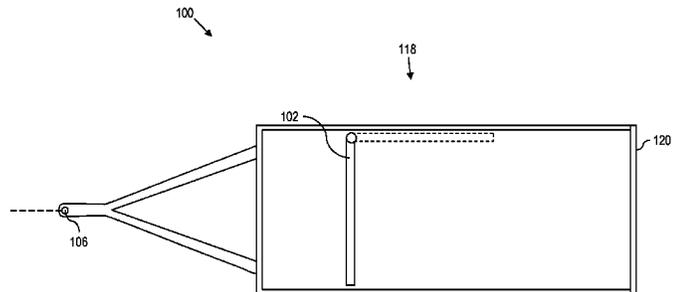
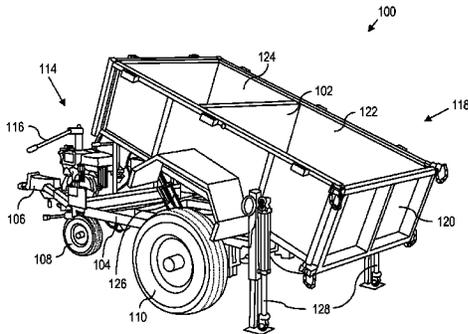
(57) **ABSTRACT**

A self-propelled dump trailer comprises a frame, a first wheel driven by an engine, a second wheel, a steering mechanism, and a dump bed that may have its front end elevated by a lifting mechanism. The frame includes a coupler so the dump trailer can be selectively coupled to a vehicle and uncoupled from the vehicle. Further, the dump bed includes a rear gate and a separator gate that divides the dump bed into two sections, wherein the separator gate is operable to place the dump bed into a first dumping position and a second dumping position. As such, the forward section of the dump bed acts as a counterbalance during a dumping operation.

(56) **References Cited**
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17 Claims, 4 Drawing Sheets



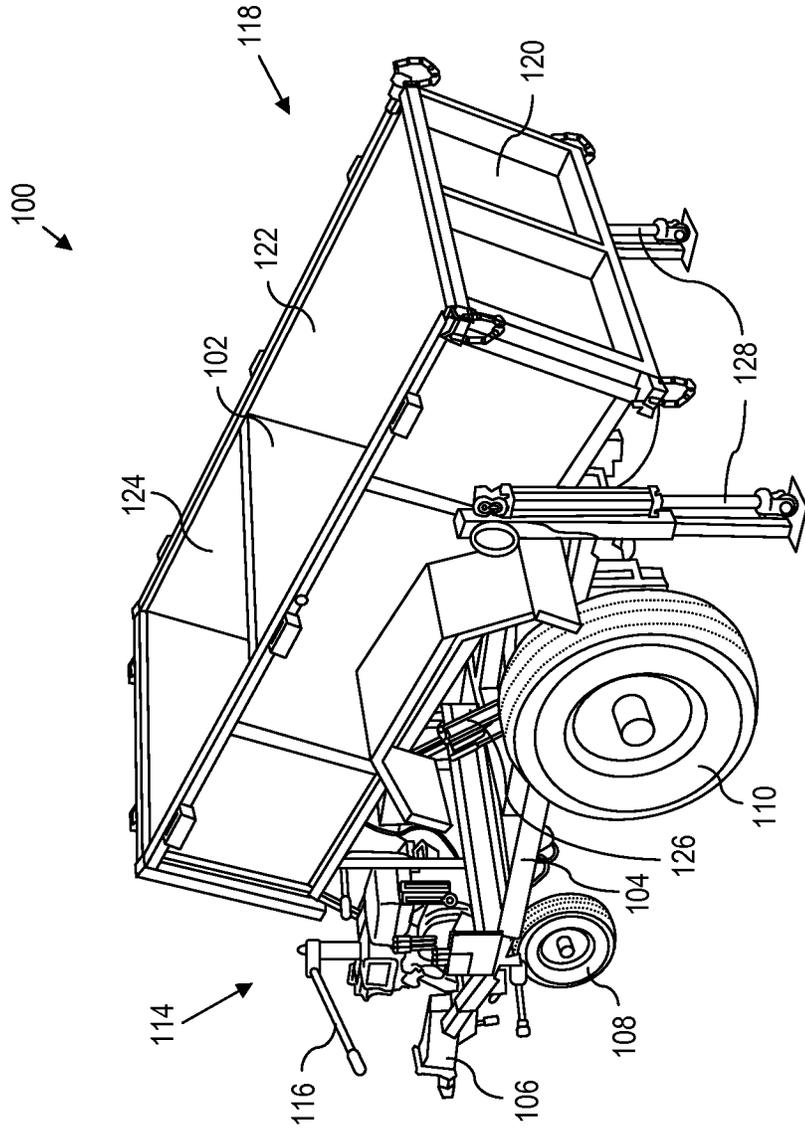


FIG. 1

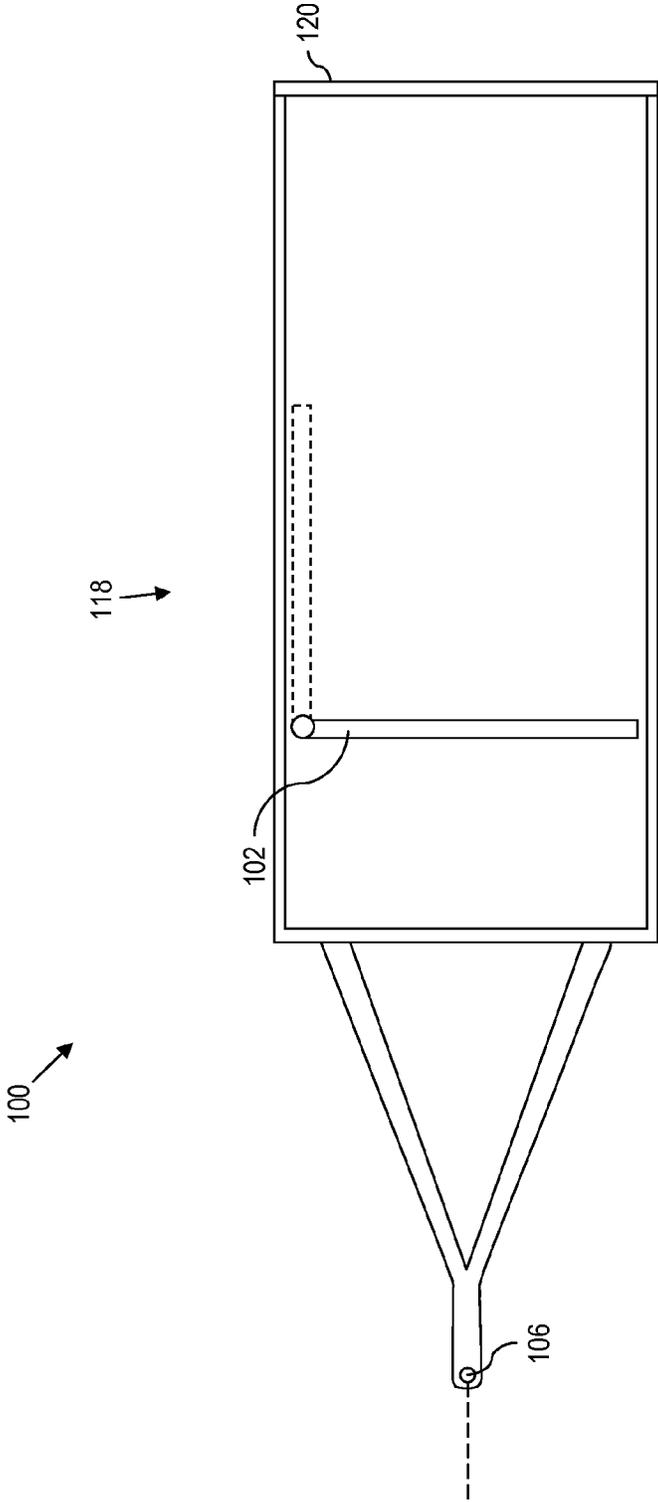


FIG. 2

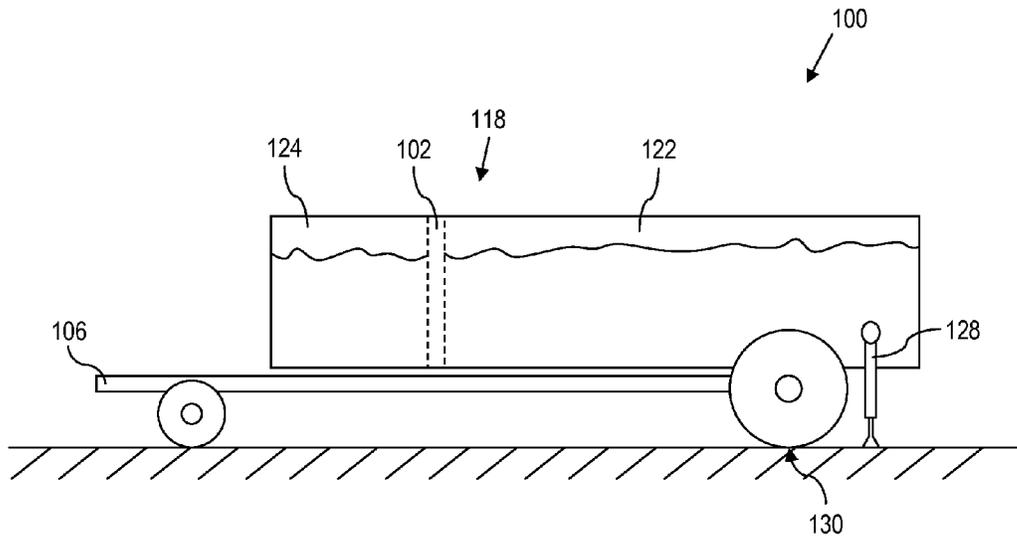


FIG. 3

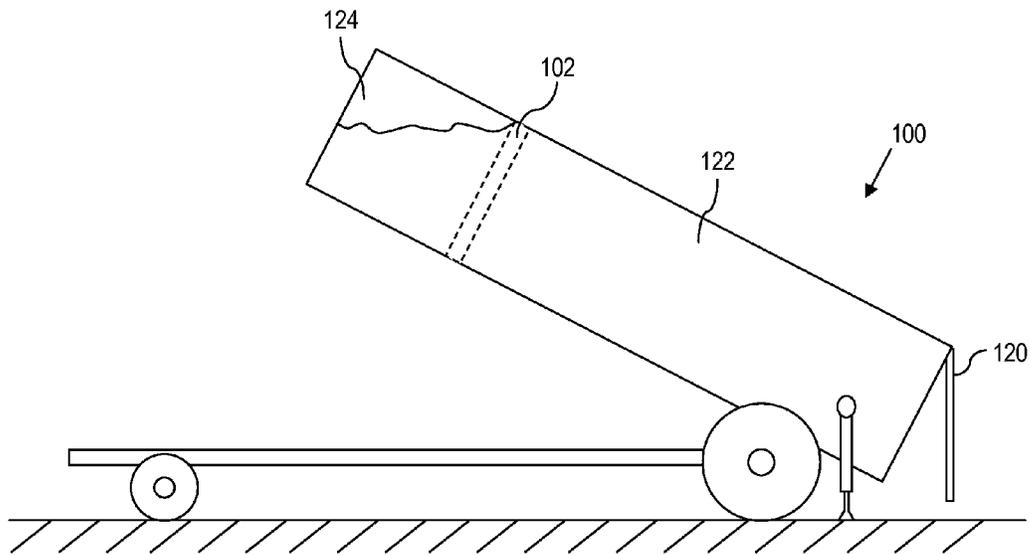


FIG. 4

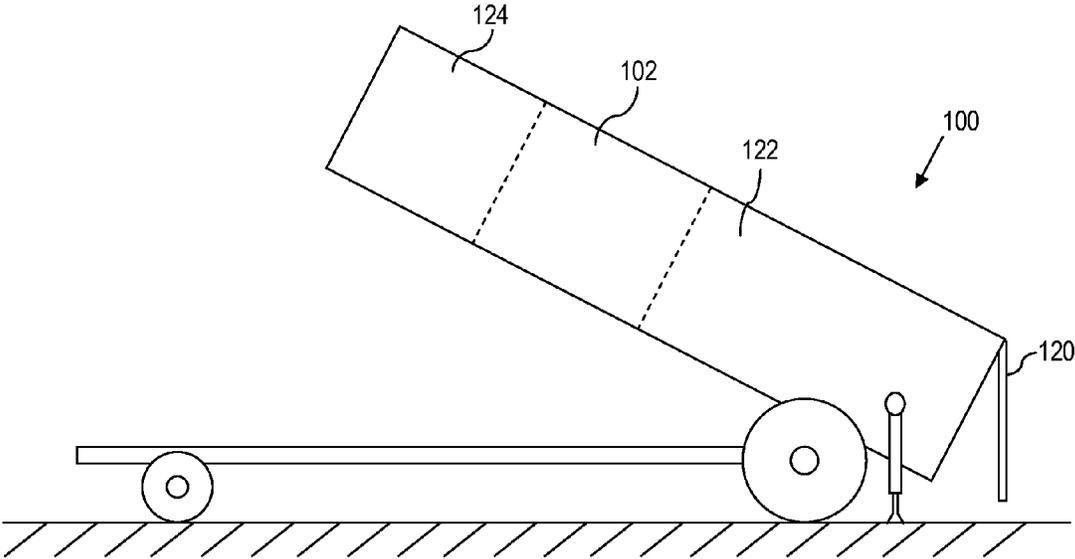


FIG. 5

SELF-PROPELLED DUMP TRAILER WITH SEPARATOR GATE

BACKGROUND

The present invention relates in general to dump trailers and more specifically to self-propelled trailers.

A self-propelled dump trailer is used for various applications including hauling soil or aggregate and collecting large, bulky waste from residences. Once at a site, the self-propelled dump trailer does not require a towing vehicle to move around, nor does it require that a user exert force to move. Because the self-propelled dump trailer does not require a towing vehicle, it is suited for travel over mowed-grass areas (e.g., a lawn, cemetery, golf course, etc.). Further, the self-propelled dump trailer has a tighter turning radius than a towed dump trailer, which allows for more maneuverability at the site.

BRIEF SUMMARY

According to aspects of the present invention, a self-propelled dump trailer comprises a frame, at least two wheels (at least one of which is driven by an engine), a steering mechanism, and a dump bed that may have its front end elevated by a lifting mechanism. The frame includes a coupler so the dump trailer can be selectively coupled to a vehicle and uncoupled from the vehicle. Further, the dump bed includes a rear gate and a separator gate that divides the dump bed into two sections, wherein the separator gate is operable to place the dump bed into a first dumping position and a second dumping position. As such, the forward section of the dump bed acts as a counterbalance during a dumping operation.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

FIG. 1 is an illustration showing a self-propelled dump trailer with a separator gate that separates a dump bed into two sections, according to various aspects of the present disclosure;

FIG. 2 is a simplified top view of a self-propelled dump trailer, according to various aspects of the present disclosure;

FIG. 3 is a simplified side view of a dump trailer where the dump bed is in a generally horizontal position, according to various aspects of the present disclosure;

FIG. 4 is a simplified side view of the dump trailer of FIG. 3 where the dump bed is in a first dumping position such that a forward section of the dump bed acts as a counterbalance during a dumping operation, according to various aspects of the present disclosure; and

FIG. 5 is a simplified side view of the dump trailer of FIGS. 3-4 where the dump bed is in a second dumping position (i.e., a separator gate is released) such that contents of the forward section of the dump bed are allowed to leave the dump bed, according to various aspects of the present disclosure.

DETAILED DESCRIPTION

According to various aspects of the present invention, a dump trailer includes a dump bed separated into a forward section and a rear section by a separator gate. Thus, if the separator gate is closed and the dump bed is in a dumping position, only the contents from the rear section are dumped, while the contents of the forward section of the dump bed remain secured in the forward section by the separator gate. As such, when the dump trailer dumps before the separator

gate is released, the contents of the forward section act as a counterbalance to prevent the dump trailer from tipping over. When the separator gate is released, the contents of the forward section travel through the rear section and are dumped. Therefore, the materials for dumping act as a counterbalance, so there is no need to add a permanent counterbalance to the dump trailer itself.

Turning to FIG. 1, a self-propelled dump trailer 100 with a separator gate 102 is shown. Basically, the self-propelled dump trailer 100 includes a frame 104 with a coupler 106 that allows the dump trailer 100 to be coupled to a vehicle for towing. When the dump trailer needs to be moved from a first site to a second site over roads, the dump trailer 100 is coupled to a vehicle that will tow the dump trailer 100 to the second site. The coupler 106 can be any type of coupler (e.g., pintle hook, ball-type receiver, Janney coupler, etc.) that couples the dump trailer 100 to a vehicle for towing.

As described herein, the forward portion of the dump trailer 100 is toward the coupler 106, and the rear portion of the dump trailer 100 is away from the coupler 106. The dump trailer 100 of FIG. 1 further includes a forward wheel 108 and a set of rear wheels 110. However, there may be two forward wheels and one rear wheel, or there may be two forward wheels and two rear wheels. Basically, any number and combination of wheels may be used (e.g., two rear and zero forward, one rear and one forward, etc.). Further, any type of tires may be used on the wheels, but the type of tires does not have to be identical between the wheels (e.g., the rear wheels may include balloon tires and the forward wheels may include tubeless tires).

In further reference to FIG. 1, the forward wheel 108 may be retractable. For example, the forward wheel 108 may be coupled to the frame 104 via a post (not shown) that may be moved up and down. As such, when the dump trailer 100 is coupled to a vehicle, the post may be moved up such that the forward wheel 108 does not touch the ground during towage. However, when the dump trailer 100 is uncoupled from the vehicle, the post can be lowered to allow the forward wheel 108 to touch the ground properly to allow for the self-propelled dump trailer 100 to move. The mechanism that raises and lowers the post may be any suitable mechanism such as, but not limited to, a crank and gear, a hinge that allows the post to fold to and away from the frame, a pin and détente structure, etc.

Moreover, the self-propelled dump trailer 100 includes an engine 114, which drives at least one of the wheels 108, 110. For example, the engine 114 may drive one or both of the rear wheels 110, one or more forward wheels 108, or combinations thereof. Further, the engine 114 may be any suitable engine (e.g., unleaded gasoline, diesel, electric, etc.) to power the driven wheel. As such, when the self-propelled dump trailer 100 is at a general site, the self-propelled dump trailer may be moved to specific points at the site under its own power (i.e., self-propelled), and a user uses a steering mechanism 116 to steer the self-propelled dump trailer 100 to the specific location at the site. As shown, the steering mechanism 116 is a bar, but other steering mechanisms may be used (e.g., wheel, yoke, etc.).

Further, the dump trailer 100 includes a dump bed 118 including a rear gate 120 at the rear of the dump bed 118 and the separator gate 102 disposed between the rear gate 120 and a front of the dump bed 118, creating two sections of the dump bed 118—a rear section 122 and a forward section 124. As shown in FIG. 1, the rear gate 120 is hinged at the top and when the bottom of the rear gate 120 is unsecured, the rear gate 120 may pivot around the top. However, the rear gate 120 may be released in other ways (e.g., hinged at the bottom,

hinged on a side, lifted up, slid to either side, hinged on both sides with a separation in the middle, etc.). The operation of the rear gate **120** is discussed in more detail below in reference to FIGS. 3-5, and the operation of the separator gate is discussed in greater detail below in reference to FIGS. 2-5.

To place the dump bed **118** in a dumping position, a lifting mechanism **126** lifts a front portion of the dump bed **118** such that the dump bed **118** rotates around a point (e.g., the rear of the dump bed, an end of the frame **104**, etc.). The dumping process is discussed in greater detail below in reference to FIGS. 3-5. In the embodiment of FIG. 1, the lifting mechanism **126** is a hydraulic lifting mechanism. However, the lifting mechanism **126** may be any suitable mechanism (e.g., electric, pneumatic, etc.). As with the self-propulsion aspect of the present invention, the lifting mechanism **126** may be powered by the engine **114**. However, the lifting mechanism **126** may be powered by a separate power source (e.g., another engine, battery, etc.) or a combination of the engine **114** and the separate power source (not shown).

To help aid in stabilizing the self-propelled dump trailer **100** during a dumping process, stabilizers **128** may be placed on the dump trailer **100**. When the dump trailer **100** reaches its dumping destination, the stabilizers **128** may be extended to stabilize the dump trailer **100**. When the dumping process is finished and the dump bed **118** returned to its generally horizontal position, the stabilizers **128** may be retracted so the dump trailer **100** may easily move again. As shown in FIG. 1, the stabilizers **128** couple to the dump bed **118**. However, the stabilizers **128** may be coupled directly to the frame **104**. Further, the stabilizers **128** should be closer to the rear of the dump trailer **100** than the rear wheels **110**.

Turning now to FIG. 2, a simplified top view of the self-propelled dump trailer of FIG. 1 is shown. The simplified view of FIG. 2 does not illustrate all of the features of the self-propelled dump trailer of FIG. 1 like the engine, the steering mechanism, the wheels, etc. As discussed above, the dump bed **118** includes both a rear gate **120** and a separator gate **102**.

In the embodiment of FIG. 2, the separator gate **102** is about one-quarter of the way down the dump bed **118** from the front end of the dump bed, but the separator gate **102** may be in other positions instead. However, the position of the separator gate **102** is related to a pivot point of the dump trailer **100**. In a dump trailer without stabilizers, the pivot point of the dump trailer is the point at which the rear wheels touch the ground, and in a dump trailer with stabilizers, the pivot point is the point at which the stabilizers touch the ground. For instance, when the dump bed **118** is in a generally horizontal position, the separator gate **102** should be between the coupler **106** and the pivot point (on a horizontal line). Further, when the dump bed **118** is in a dumping position, the separator gate **102** should remain between the front of the dump bed **118** and the pivot point (on the horizontal line) even though the separator gate **102** will have traveled closer to the pivot point (along the horizontal line) when the front of the dump bed **118** is elevated by the lifting mechanism. Thus, the position of the separator gate is dependent on the distance between the pivot point and the front of the dump bed and dependent on the angle at which the dump bed will be when in the dumping position.

As shown in FIG. 2, the separator gate **102** is hinged on a side. Thus, the separator gate **102** is allowed (or forced) to swing open along the side with the hinge. However, the separator gate may be opened in other ways including but not limited to: a hinge on the top of the separator gate, a hinge on the bottom of the separator gate, lifting the separator gate up

a sliding mechanism, sliding the separator gate sideways (i.e., horizontal-sliding) along a sliding mechanism, etc.

FIGS. 3-5 show simplified side views of the dump trailer during different stages of a dumping process. FIG. 3 shows the dump trailer **100** in a generally horizontal position. Materials for dumping fill both the forward section **124** and the rear section **122** of the dump bed **118**. The stabilizers **128** are extended and create a pivot point **130** for the dump trailer on the ground. Note that the separator gate **102** is between the coupler **106** and the pivot point **130** along a horizontal line.

FIG. 4 shows the dump trailer **100** in a first dumping position. The rear gate **120** is hinged on the top and has been unlatched. Thus, when the dump bed **118** is placed in the first dumping position, the materials from the rear section **122** of the dump bed **118** pour out of the rear of the dump bed **118** through the open rear gate **120**. However, the materials in the forward section **124** remain in the forward section **124** when the dump bed is in the first dumping position.

Because the separator gate **102** remains between the pivot point **130** and the coupler, the load of the material in the forward section **124** produces a counterclockwise torque on the dump trailer **100** around the pivot point. This counterclockwise torque acts as a counterbalance when the material from the rear section **122** passes past the pivot point and produces a clockwise torque around the pivot point **130**. As such, the dump trailer will not tip over around the pivot point **130** during the dumping process. Therefore, there is no need to add an extra weight as a counterbalance to the dump trailer **100**, which allows the self-propelled dump trailer **100** to be lighter overall than standard self-propelled dump trailers. Further, this lighter dump trailer **100** will leave less deep tracks/ruts (or no tracks/ruts at all) in the ground when being moved at a site. Further, the dump trailer **100** does not need to be hitched to a towing vehicle that acts as a counter weight. Instead, the dump trailer **100** is stand-alone at the site.

Turning now to FIG. 5, the dump trailer **100** is shown in a second dumping position, where the separator gate **102** is released. The materials from the forward section **124** pass through the rear section **122** and out the opened rear gate **120**. Therefore, all of the materials in the dump trailer may be removed through the opened rear gate **120**.

The terminology used herein is for the purpose of describing particular embodiments only and is not intended to be limiting of the invention. As used herein, the singular forms "a," "an" and "the" are intended to include the plural forms as well, unless the context clearly indicates otherwise. It will be further understood that the terms "comprises" and/or "comprising," when used in this specification, specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

The description of the present invention has been presented for purposes of illustration and description, but is not intended to be exhaustive or limited to the invention in the form disclosed. Many modifications and variations will be apparent to those of ordinary skill in the art without departing from the scope and spirit of the invention.

Having thus described the invention of the present application in detail and by reference to embodiments thereof, it will be apparent that modifications and variations are possible without departing from the scope of the invention defined in the appended claims.

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What is claimed is:

- 1. A self-propelled dump trailer comprising:
 - a frame including a coupler such that the dump trailer may be selectively coupled to a vehicle and uncoupled from the vehicle;
 - a first wheel coupled to the frame;
 - a second wheel coupled to the frame;
 - an engine coupled to the frame and mechanically coupled to the first wheel such that the engine drives the first wheel;
 - a steering mechanism coupled to the frame;
 - a dump bed coupled to the frame, the dump bed comprising:
 - a rear gate; and
 - a separator gate that divides the dump bed into two sections, wherein the separator gate is operable to place the dump bed into a first dumping position and a second dumping position; and
 - a lifting mechanism for elevating a front portion of the dump bed.
- 2. The self-propelled dump trailer of claim 1, wherein the separator gate is hinged on a side.
- 3. The self-propelled dump trailer of claim 1, wherein the separator gate is hinged on a top of the separator gate.
- 4. The self-propelled dump trailer of claim 1, wherein the separator gate is hinged on a bottom of the separator gate.
- 5. The self-propelled dump trailer of claim 1, wherein the separator gate is a lift gate.

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- 6. The self-propelled dump trailer of claim 1, wherein the separator gate is a horizontal-sliding gate.
- 7. The self-propelled dump trailer of claim 1, wherein the first wheel is toward the rear of the frame.
- 8. The self-propelled dump trailer of claim 7, wherein the second wheel is retractable.
- 9. The self-propelled dump trailer of claim 1, wherein the first wheel is toward the front of the frame.
- 10. The self-propelled dump trailer of claim 1, wherein the rear gate opens via a hinge.
- 11. The self-propelled dump trailer of claim 1, wherein the rear gate opens via a sliding mechanism.
- 12. The self-propelled dump trailer of claim 1, wherein lifting mechanism is a hydraulic lifting mechanism.
- 13. The self-propelled dump trailer of claim 1 further comprising a stabilizer on the frame.
- 14. The self-propelled dump trailer of claim 1 further comprising a stabilizer on the dump bed.
- 15. The self-propelled dump trailer of claim 1 further comprising a balloon tire on the first wheel.
- 16. The self-propelled dump trailer of claim 1 further wherein the steering mechanism is coupled to the first wheel such that a user can steer the self-propelled dump trailer.
- 17. The self-propelled dump trailer of claim 1 further wherein the steering mechanism is coupled to the second wheel such that a user can steer the self-propelled dump trailer.

* * * * *



38--Florida National Cemetery, (2) Self-Propelled Dump Trailers

Solicitation Number: VA78616N0596

Agency: Department of Veterans Affairs

Office: VA National Cemetery Administration Centralized Contracting Division

Location: Department of Veterans Affairs National Cemetery Administration

Notice Type:

Special Notice

Posted Date:

September 21, 2016

Response Date:

-

Archiving Policy:

Automatic, on specified date

Archive Date:

November 20, 2016

Original Set Aside:

N/A

Set Aside:

N/A

Classification Code:

38 -- Construction, mining, excavating & highway maintenance equipment

NAICS Code:

336 -- Transportation Equipment Manufacturing/336212 -- Truck Trailer Manufacturing

Synopsis:

Added: Sep 21, 2016 1:28 pm

The Department of Veteran Affairs, National Cemetery Administration (NCA) intends to award a contract for the acquisition of the specified Single Source brand name commercial items.

The statutory authority permitting the acquisition of this requirement by other than full and open competition is 10 U.S.C. 2304(c)(1), FAR Subpart 6.302-1, "Only one responsible source and no other supplies or services will satisfy agency requirements." This acquisition will not exceed the Simplified Acquisition Threshold and is in accordance with FAR 13.106-1(b)(1)(i).

A description of the supplies or services required to meet the agency's need: Two (2) Logan Self-Propelled Dump Trailers for delivery to Florida National Cemetery, 6502 SW 102nd Avenue, Bushnell, FL 33513. These items are sold by AXIS Corporation, 314 Water Ave, PO Box 668 Bellefontaine, OH 43311, DUNS 052859949. See attachment "Logan Dump Trailer Description" for additional descriptive information.

This notice is published for informational purposes and is not a Request for Quote (RFQ) or a Request for Proposal (RFP). No solicitation documents exist for this requirement and this notice is not to be construed as a commitment by the government, implied or otherwise, to issue a solicitation. However, all responsible parties interested in responding to this notice are invited to submit a capability statement, including costs that provide sufficient details for consideration by the Government.

Responses must be received by Saturday, September 24, 2016 at 9:00 AM ET. Oral communications are not acceptable in response to this notice and telephone inquiries will not be accepted. Responses received will be considered; however, a determination by the Government not to compete the proposed procurement based upon responses to this notice is solely within the discretion of the Government.

Send responses by email only to:

David Dixon

Contracting Officer

U.S. Department of Veterans Affairs

National Cemetery Administration Contracting Service

Email: david.dixon2@va.gov

Attachment

Type: Other (Draft RFPs/RFIs, Responses to Questions, etc..)

Posted Date: September 21, 2016

<https://www.vendorportal.ecms.va.gov/FBODocumentServer/DocumentServer.aspx?DocumentId=3017378&FileName=VA786-16-N-0596-000.docx>

Description: VA786-16-N-0596 VA786-16-N-0596_FBNOTICE.docx

<https://www.vendorportal.ecms.va.gov/FBODocumentServer/DocumentServer.aspx?DocumentId=3017379&FileName=VA786-16-N-0596-001.docx>

Description: VA786-16-N-0596 Logan Dump Trailer Description.docx

Additional Info:

National Cemetery Administration

Contracting Office Address:

Department of Veterans Affairs;NCA Contracting Service;75 Barrett Heights Rd. Suite 309;Stafford VA 22556