

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 18/073,035 Confirmation No. 9255
Applicant : Ian NUHN
Filed : 12/01/2022
TC/A.U. : 3617
Examiner : Stephen P. AVILA

Docket No. : NUN-0007-US8
Customer No. : 59115

Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

AMENDMENT/RESPONSE

Sir:

In response to the Office action of March 9, 2023, please consider the following amendment/response. Please amend the application as follows:

Amendments to the Claims are reflected in the listing of claims which begins on page **2** of this paper.

Remarks/Arguments begin on page **16** of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An amphibious manure lagoon agitation vehicle comprising:

a floatable vehicle body having a front, a rear, a middle, a left side, a right side, an underside, and a longitudinal centerline extending from the front to the rear of the vehicle body;

a ground engaging propulsion structure including a front left wheel, a front right wheel, a rear left wheel, and a rear right wheel;

a first buoyant element located on the left side of the vehicle body between the front left wheel and the rear left wheel;

a second buoyant element located on the right side of the vehicle body between the front right wheel and the rear right wheel;

a fluid liquid manure pump configured to pump liquid manure from a manure lagoon and generate a flow of liquid manure through a fluid conduit that is mounted to the vehicle body, the liquid manure pump including a pump housing and an impeller located along the underside of the vehicle body such that the impeller is configured to be immersed in the liquid manure of the manure lagoon when the amphibious manure lagoon agitation vehicle is floating in the liquid manure of the manure lagoon;

a power source configured to provide power to both the ground engaging propulsion structure and the fluid liquid manure pump; and,

a remote control structure configured to control the ground engaging propulsion structure and ~~a~~ the flow of liquid manure through the fluid conduit, wherein the speed and/or direction of the amphibious manure lagoon agitation vehicle is remotely controllable by an operator remote from the amphibious manure lagoon agitation vehicle when the amphibious manure lagoon agitation vehicle is ground engaging and when the amphibious manure lagoon agitation vehicle is floating in the liquid manure of the manure lagoon.

2. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 1, wherein the fluid pump housing comprises ~~a bottom fluid an inlet configured~~ to be immersed in the liquid manure when the amphibious manure lagoon agitation vehicle is floating in the liquid manure of the manure lagoon for immersion within liquid manure.

3. (Cancelled)

4. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~3~~ 1, wherein the immersion of the impeller within the liquid manure of the manure lagoon obviates the need for priming the liquid manure pump.

5. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~3~~ 1, wherein the pump housing comprises a bottom fluid inlet and at least two tangential fluid outlets.

6. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 5, wherein ~~each~~ at least one of the ~~at least two~~ tangential fluid outlets is equipped with a flexible connection to ~~a single~~ the fluid conduit.

7. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 5, wherein the at least two tangential fluid outlets are

connected to a combiner that is configured to combine the flow of liquid manure from the tangential fluid outlets into the fluid conduit.

8. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~3~~ 1, wherein the fluid liquid manure pump comprises a mechanical drive shaft that drives a pump rotation of the impeller within the pump housing.

9. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 8, wherein the pump impeller is configured to draw draws liquid manure in the manure lagoon to be pumped through a bottom opening of the pump housing.

10. (Cancelled)

11. (Cancelled)

12. (Cancelled)

13. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~12~~ 1, wherein at least one of the buoyant elements comprise comprises a foam filled buoyant chambers chamber.

14. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~10~~ 1, wherein the four wheels are configured to be independently driven.

15. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~10~~ 1, wherein the four wheels are configured to be independently driven at variable speeds.

16. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim ~~10~~ 1, further comprising a steering structure configured to change direction of one or more of the wheels.

17. (Cancelled)

18. (Cancelled)

19. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 1, further comprising an articulation cylinder adjustment structure that is coupled to a linkage and configured to adjust an angle, relative to the floatable vehicle body, at which the flow of liquid manure is ejected from the fluid conduit.

20. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 1, wherein the fluid conduit is configured to direct the flow of liquid manure through the air and back into the manure lagoon to disrupt surface crust formed on the liquid manure in the manure lagoon and recirculate the liquid manure in the manure lagoon.

21. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 1, wherein the fluid conduit comprises a terminal opening.

22. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 1, further comprising a hydraulic articulation cylinder for changing configured to change an angle, relative to the floatable vehicle body, at which the flow of liquid manure is ejected from the fluid conduit.

23. (Currently Amended) The amphibious manure lagoon agitation vehicle according to claim 22, wherein the hydraulic articulation cylinder is coupled to a four bar linkage.



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