CLAIMS

1. A trolley comprising:

a load plate on which an object is loaded;

a front wheel part including a front wheel support bent at a predetermined angle and shaft-coupled to the front of the lower portion of the load plate, and a first wheel and a second ~~pair of~~ wheel~~s~~ provided at both ends of the front wheel support, respectively, to rotate along the rotational radius of the shaft and ~~be selectively seated on~~ operated to be lifted off the ground by turns~~and driven, while traveling~~;

a rear wheel part including a rear wheel support bent at a predetermined angle and shaft-coupled to the rear of the lower portion of the load plate, and a ~~pair of~~ third wheel and a fourth wheel~~s~~ provided at both ends of the rear wheel support, respectively, to rotate along the rotational radius of the shaft and operated to be lifted off ~~be selectively seated on~~ the ground by turns ~~and driven, while traveling~~; and

an actuation member linking the ~~operatively connecting the pair of wheels of the~~ front wheel part and the ~~pair of wheels of the~~ rear wheel part ~~to be aligned with each other~~ through a gear coupling structure and ~~adjusting the position of at least one of the pair of wheels of the front wheel part~~ operatively connecting the front wheel part and rear wheel part.~~.~~

wherein when encountering obstacles while traveling in a state of the first wheel and the fourth wheel being lifted off the ground and the second wheel and the third wheel being supported on the ground, the actuation member controls the first wheel and the second wheel to be rotated in a first direction around the shaft of the front wheel part such that the front wheel part crosses the obstacles, and controls the third wheel and the fourth wheel to be rotated in an opposite direction of the first direction around the shaft of the rear wheel part such that the third wheel is to be lifted off the ground and the fourth wheel is to be supported on the ground to

allow the rear wheel part to cross the obstacles.

2. The trolley of claim 1, further comprising:

a movement auxiliary member between the load plate and the front wheel part,

wherein the movement auxiliary member includes:

a pinion gear provided in the shaft of the front wheel part and operatively connected with the actuation member; and

a rack gear provided in the lower portion of the load plate and engaged with the pinion gear to move the load plate forward or backward by a certain distance according to the rotation of the pinion gear,

wherein the pinion gear rotates in the clockwise or counterclockwise direction according to the operation of the actuation member, to move the load plate forward by a certain distance when the front wheel part crosses objects, and move the load plate backward by a certain distance when the rear wheel part crosses objects.

3, The trolley of claim 1, wherein the actuation member includes:

an operation part operating in a manual mode with a handle or in an electric mode with a motor.

4. The trolley of claim 1, wherein the actuation member includes:

a first gear part provided in the shaft of the rear wheel part;

an operation part connected with the first gear part to rotate the first gear part;

a second gear part provided in the shaft of the front wheel part; and

a shaft member transmitting the rotary power of the first gear part to the second gear part.

5. The trolley of claim 4, wherein the first gear part includes:

a first bevel gear provided in the shaft of the rear wheel part;

a second bevel gear engaged with the first bevel gear and connected with the operation part; and

a third bevel gear engaged with the first bevel gear and connected with the shaft member, and

wherein the second gear part includes:

a fourth bevel gear provided in the shaft of the front wheel part; and

a fifth bevel gear engaged with the fourth bevel gear and connected with the shaft member.

~~6. The trolley of claim 1, wherein the actuation member includes:~~

~~a first worm gear provided in the shaft of the rear wheel part;~~

~~an operation part connected with the first worm gear to rotate the first worm gear;~~

~~a second worm gear provided in the shaft of the front wheel part; and~~

~~a shaft member transmitting the rotary power of the first worm gear to the second worm gear.~~

~~7. The trolley of claim 6, wherein the first worm gear includes:~~

~~a first worm wheel provided in the shaft of the rear wheel part; and~~

~~a first worm engaged with the first worm wheel, and one side of which is connected to the operation part and the other side of which is connected to the shaft member, and~~

~~wherein the second worm gear includes:~~

~~a second worm wheel provided in the shaft of the front wheel part; and~~

~~a second worm connected to the shaft member and engaged with the second worm wheel.~~

~~8. The trolley of claim 1, further comprising:~~

~~a steering member connecting between the front wheel part and the rear wheel part through a linkage structure to change the traveling direction of the front wheel part and rear wheel part by operation of a handle.~~

~~9. The trolley of claim 8, wherein the steering member includes:~~

~~a steering handle provided in the rear of the load plate;~~

~~a rear wheel linking part coupled to the lower portion of the load plate and connected with the shaft of the rear wheel part;~~

~~a front wheel linking part coupled to the lower portion of the load plate and connected with the shaft of the front wheel part; and~~

~~a steering linking part connecting the steering handle, rear wheel linking part and front wheel linking part, and operating the rear wheel linking part and front wheel linking part by operation of the steering handle to change the traveling direction of the front wheel part and rear wheel part.~~

~~10. The trolley of claim 9, wherein the steering linking part includes:~~

~~a first steering frame formed integrally with the steering handle and connected with the rear wheel linking part;~~

~~a second steering frame connected with the front wheel linking part; and~~

~~a steering link connected between the first steering frame and the second steering frame,~~

~~wherein a hub is provided in the shaft of the rear wheel part and the shaft of the front wheel part to connect each of the corresponding rear wheel linking part and front wheel linking~~

~~part, and~~

~~wherein in the hub, the shaft of the rear wheel part or front wheel part is penetrated, and the rear wheel linking part or front wheel linking part corresponding to the outer surface is coupled.~~

~~11. The trolley of claim 1, further comprising:~~

~~a first wheel drive means provided in the front wheel support to rotate at least one of the pair of wheels of the front wheel part; and~~

~~a second wheel drive means provided in the rear wheel support to rotate at least one of the pair of wheels of the rear wheel part.~~

~~12. An offshore structure comprising:~~

~~a deck on which an object is transported and installed;~~

~~at least one coaming member fixedly installed on the deck to inhibit the dispersion of fluids; and~~

~~a trolley passing the at least one coaming member without using inclined ramps, and transporting the object to one region of the deck.~~

~~13. The offshore structure of claim 12, wherein the trolley includes~~

6. A trolley comprising:

a load plate on which ~~the~~ an object is loaded;

a front wheel part including ~~comprising~~ a front wheel support shaft-coupled to the front of the lower portion of the load plate, and a pair of wheels provided at both ends of the front wheel support, respectively, to rotate along the rotational radius of the shaft and be selectively seated on the ground and driven, while traveling;

a rear wheel part including ~~comprising~~ a rear wheel support shaft-coupled to the rear of

the lower portion of the load plate, and a pair of wheels provided at both ends of the rear wheel support, respectively, to rotate along the rotational radius of the shaft and be selectively seated on the ground and driven, while traveling; and

an actuation member operatively connecting the pair of wheels of the front wheel part and the pair of wheels of the rear wheel part to be aligned with each other through a gear coupling structure and adjusting the position of at least one of the pair of wheels of the front wheel part.

~~14. An offshore structure comprising:~~

~~an enclosed area having a door for sealing the inside and a doorsill of a predetermined height and selectively setting a positive or negative pressure thereinside; and~~

~~a trolley passing the doorsill without using inclined ramps, and transporting the object to one region in the enclosed area.~~

~~15. The offshore structure of claim 14, wherein the trolley includes:~~

7. A trolley comprising:

a load plate on which ~~the~~ an object is loaded;

a front wheel part ~~comprising~~ including a front wheel support shaft-coupled to the front of the lower portion of the load plate, and a pair of wheels provided at both ends of the front wheel support, respectively, to rotate along the rotational radius of the shaft and be selectively seated on the ground and driven, while traveling;

a rear wheel part ~~comprising~~ including a rear wheel support shaft-coupled to the rear of the lower portion of the load plate, and a pair of wheels provided at both ends of the rear wheel support, respectively, to rotate along the rotational radius of the shaft and be selectively seated on the ground and driven, while traveling; and

an actuation member connecting the pair of wheels of the front wheel part and the pair of wheels of the rear wheel part to be aligned with each other through a gear coupling structure, and lifting the wheels that are seated on the ground off the ground among the pairs of wheels of the front wheel part and rear wheel part, to avoid obstacles, when encountering the obstacles.

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