MODIFIED CLAIMS

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1. Transport vehicle (1), namely a harbor vehicle, including :

- a chassis (2) aimed at receiving at least one freight container (C ; C'), even a superposition of at least two containers (C ; C'), resting on at least a portion of this chassis (2) ;

- means (3 ; 4) designed for the vehicle (1) to run on the ground and implanted under at least a portion of this chassis (2) ;

- a front module (5) including, on the one hand, a front structure (50) forming partially the chassis (2) of the vehicle (1) and, on the other hand, rolling means (3) implanted under this front structure (50) ;

- a rear module (6) including, on the one hand, a rear structure (60) forming partially the chassis (2) of the vehicle (1) and, on the other hand, rolling means (4) implanted under this rear structure (60) ;

- an intermediate module (7), interposed between the front module (5) and the rear module (6), connected to these front (5) and rear (6) modules, and including an intermediate structure (70), forming partially the chassis (2) of the vehicle (1), designed for the loading of at least one container (C ; C'), and extending at a lower level than the front (50) and rear (60) structures ;

- means (8) designed for ensuring maintaining laterally at least one container (C; C') loaded on the intermediate loading structure (70), having between them a separation at least equal to the dimensions of such a container (C ; C'), and at least one portion of which defines a side structure (9) forming partially the chassis (2) of the vehicle (1),

characterized in that the means (8) for maintaining laterally include longitudinal beams (80), on the one hand, which have between them a separation at least equal to the width of a container (C ; C'), on the other hand, which form at least partially the side structure (9) forming partially the chassis (2) of the vehicle (1) and, yet on the other hand, which connect the front module (5) and the rear module (6), in particular the front structure (50) and the rear structure (60).

2. Transport vehicle (1) according to claim 1, characterized in that the front

module (5) includes, on the one hand, a driver's cab (51), on the other hand, means (52) for mounting pivotally, according to a vertical axis, this driver's cab (51) with respect to the front structure (50) of this front module (5) and, yet on the other hand, means for orientating this driver's cab (51) tangentially to the path of the vehicle (1).

3. Transport vehicle (1) according to claim 2, characterized in that the driver's cab (51) is implanted above a portion of the front structure (50) of the front module (5), while the means for orientating this driver's cab (51) are designed for driving this cab (51) pivotally with respect to the front structure (50), by acting on the means (52) for mounting pivotally or on the cab (51).

4. Transport vehicle (1) according to claim 2, characterized in that the front module (5) includes a carriage (53), on the one hand, including the driver's cab (51) as well as rolling means (3) and, on the other hand, connected to the front structure (50) the front module (5) includes, this through means (52) for mounting pivotally, according to a vertical axis, this carriage (53) with respect to this front structure (50).

5. Transport vehicle (1) according to claim 4, characterized in that the carriage (53) includes means for mounting pivotally, according to a vertical axis, the driver's cab (51) and/or rolling means (3), this on a chassis this carriage (53) includes.

6. Transport vehicle (1) according to any of the preceding claims, characterized in that the front module (5) and/or the rear module (6) include, on the one hand, rolling means (3 ; 4) each formed by at least two running gears (30, 30' ; 40, 40'), on the other hand, a means for mounting pivotally, according to a vertical axis and under its structure (50 ; 60), each running gear (30, 30' ; 40, 40') of these rolling means (3 ; 4) and yet on the other hand, at least one means for controlling the pivoting of at least one such running gear (30, 30' ; 40, 40') the rolling means (3 ; 4) of such a module (5 ; 6) include.

7. Transport vehicle (1) according to claim 6, characterized in that the front module (5) and/or the rear module (6) include a means for controlling the pivoting of a running gear (30; 40) the rolling means (3 ; 4) of such a module (5 ; 6) include as well as at least one means for transmitting such a control of pivoting of this running gear (30; 40) to at least one other running gear (30' ; 40') the rolling means (3 ; 4) of such a module (5 ; 6) include.

8. Transport vehicle (1) according to claim 7, characterized in that the means for

transmitting the control of pivoting to another running gear (30' ; 40') is designed so as to provide this other running gear (30' ; 40') with an angle of pivoting corresponding to a fraction of the angle of pivoting of the running gear (30 ; 40) controlled by the control means.

9. Transport vehicle (1) according to any of the preceding claims, characterized in that the front module (5) and/or the rear module (6) include means for capturing information related to the load transported by the vehicle (1), even also suspension means interposed between the structure (50 ; 60) and the rolling means (3 ; 4) of such a module (5 ; 6) and at which this information is captured.

10. Transport vehicle (1) according to any of the preceding claims, characterized in that the vehicle (1) includes a means for synchronizing the rolling means (3 ; 4) the front module (5) or the rear module (6), respectively, includes with the rolling means (4 ; 3) the rear module (6) or the front means (5), respectively, includes.

11. Transport vehicle (1) according to claim 10, characterized in that the means for synchronizing is formed by a hydraulic system designed for transferring a volume of liquid between the rolling means (3 ; 4) of the front module (5) or the rear module (6), respectively, and the rolling means (4 ; 3) of the rear module (6) or the front module (5), respectively.

12. Transport vehicle (1) according to any of the preceding claims, characterized in that the means (8) for maintaining laterally include vertical boards (81), which have between them a separation at least equal to the width of a container (C; C'), and which are made integral with at least one module (5 ; 6 ; 7) and/or one longitudinal beam (80) the means (8) for maintaining laterally include.

13. Transport vehicle (1) according to claim 12, characterized in that the vertical boards (81) have a height determined for these vertical boards (81) to extend laterally with respect to a second container (C') superimposed on a first container (C) loaded on the intermediate structure (70) of the intermediate module (7).

14. Transport vehicle (1) according to any of the preceding claims, characterized in that the means (8) for maintaining laterally include posts (82) and/or cross-beams (83) the intermediate module (7) and/or, as the case may be, the front module (5) or the rearmodule (6) include, and that have between them a separation at

least equal to the length of a container (C ; C').

15. Transport vehicle (1) according to any of the preceding claims, characterized in that it includes means for guiding at least one container (C ; C') during its loading onto this transport vehicle (1).

16. Transport vehicle (1) according to any of the preceding claims, characterized in that the front structure (50) and/or the rear structure (60) and/or the intermediate structure (70) and/or the side la structure (9) include at least longitudinal beams (500 ; 600 ; 700 ; 80), even also transversal beams for connecting at least two longitudinal beams (500 ; 600 ; 700 ; 80).

17. Transport vehicle (1) according to claims 10 and 16, characterized in that at least part of the longitudinal beams (500 ; 600 ; 700 ; 80) the structures (50 ; 60 ; 70 ; 9) and/or the means (8) for maintaining laterally include are formed of tubes or boxes having an inner volume for receiving at least the means for synchronizing the rolling means (3 ; 4) of the front (5) and rear (6) modules.

CLAIMS

1. Transport vehicle (1), namely a harbor vehicle, including :

- a chassis (2) aimed at receiving at least one freight container (C ; C'), even a superposition of at least two containers (C ; C'), resting on at least a portion of this chassis (2) ;

- means (3 ; 4) designed for the vehicle (1) to run on the ground and implanted under at least a portion of this chassis (2) ;

- a front module (5) including, on the one hand, a front structure (50) forming partially the chassis (2) of the vehicle (1) and, on the other hand, rolling means (3) implanted under this front structure (50) ;

- a rear module (6) including, on the one hand, a rear structure (60) forming partially the chassis (2) of the vehicle (1) and, on the other hand, rolling means (4) implanted under this rear structure (60) ;

- an intermediate module (7), interposed between the front module (5) and the rear module (6), connected to these front (5) and rear (6) modules, and including an intermediate structure (70), forming partially the chassis (2) of the vehicle (1), designed for the loading of at least one container (C ; C'), and extending at a lower level than the front (50) and rear (60) structures ;

- means (8) designed for ensuring maintaining laterally at least one container (C; C') loaded on the intermediate loading structure (70), having between them a separation at least equal to the dimensions of such a container (C ; C'), and at least one portion of which defines a side structure (9) forming partially the chassis (2) of the vehicle (1),

characterized in that the means (8) for maintaining laterally include longitudinal beams (80), on the one hand, which have between them a separation at least equal to the width of a container (C ; C'), on the other hand, which form at least partially the side structure (9) forming partially the chassis (2) of the vehicle (1) and, yet on the other hand, which connect the front module (5) and the rear module (6), in particular the front structure (50) and the rear structure (60).

2. Transport vehicle (1) according to claim 1, characterized in that the front module (5) includes, on the one hand, a driver's cab (51), on the other hand, means (52)

for mounting pivotally, according to a vertical axis, this driver's cab (51) with respect to the front structure (50) of this front module (5) and, yet on the other hand, means for orientating this driver's cab (51) tangentially to the path of the vehicle (1).

3. Transport vehicle (1) according to claim 2, characterized in that the driver's cab (51) is implanted above a portion of the front structure (50) of the front module (5), while the means for orientating this driver's cab (51) are designed for driving this cab (51) pivotally with respect to the front structure (50), by acting on the means (52) for mounting pivotally or on the cab (51).

4. Transport vehicle (1) according to claim 2, characterized in that the front module (5) includes a carriage (53), on the one hand, including the driver's cab (51) as well as rolling means (3) and, on the other hand, connected to the front structure (50) the front module (5) includes, this through means (52) for mounting pivotally, according to a vertical axis, this carriage (53) with respect to this front structure (50).

5. Transport vehicle (1) according to claim 4, characterized in that the carriage (53) includes means for mounting pivotally, according to a vertical axis, the driver's cab (51) and/or rolling means (3), this on a chassis this carriage (53) includes.

6. Transport vehicle (1) according to any of the preceding claims, characterized in that the front module (5) and/or the rear module (6) include, on the one hand, rolling means (3 ; 4) each formed by at least two running gears (30, 30' ; 40, 40'), on the other hand, a means for mounting pivotally, according to a vertical axis and under its structure (50 ; 60), each running gear (30, 30' ; 40, 40') of these rolling means (3 ; 4) and yet on the other hand, at least one means for controlling the pivoting of at least one such running gear (30, 30' ; 40, 40') the rolling means (3 ; 4) of such a module (5 ; 6) include.

7. Transport vehicle (1) according to claim 6, characterized in that the front module (5) and/or the rear module (6) include a means for controlling the pivoting of a running gear (30; 40) the rolling means (3 ; 4) of such a module (5 ; 6) include as well as at least one means for transmitting such a control of pivoting of this running gear (30; 40) to at least one other running gear (30' ; 40') the rolling means (3 ; 4) of such a module (5 ; 6) include.

8. Transport vehicle (1) according to claim 7, characterized in that the means for transmitting the control of pivoting to another running gear (30' ; 40') is designed so as

to provide this other running gear (30' ; 40') with an angle of pivoting corresponding to a fraction of the angle of pivoting of the running gear (30 ; 40) controlled by the control means.

9. Transport vehicle (1) according to any of the preceding claims, characterized in that the front module (5) and/or the rear module (6) include means for capturing information related to the load transported by the vehicle (1), even also suspension means interposed between the structure (50 ; 60) and the rolling means (3 ; 4) of such a module (5 ; 6) and at which this information is captured.

10. Transport vehicle (1) according to any of the preceding claims, characterized in that the vehicle (1) includes a means for synchronizing the rolling means (3 ; 4) the front module (5) or the rear module (6), respectively, includes with the rolling means (4 ; 3) the rear module (6) or the front means (5), respectively, includes.

11. Transport vehicle (1) according to claim 10, characterized in that the means for synchronizing is formed by a hydraulic system designed for transferring a volume of liquid between the rolling means (3 ; 4) of the front module (5) or the rear module (6), respectively, and the rolling means (4 ; 3) of the rear module (6) or the front module (5), respectively.

12. Transport vehicle (1) according to any of the preceding claims, characterized in that the means (8) for maintaining laterally include vertical boards (81), which have between them a separation at least equal to the width of a container (C; C'), and which are made integral with at least one module (5 ; 6 ; 7) and/or one longitudinal beam (80) the means (8) for maintaining laterally include.

13. Transport vehicle (1) according to claim 12, characterized in that the vertical boards (81) have a height determined for these vertical boards (81) to extend laterally with respect to a second container (C') superimposed on a first container (C) loaded on the intermediate structure (70) of the intermediate module (7).

14. Transport vehicle (1) according to any of the preceding claims, characterized in that the means (8) for maintaining laterally include posts (82) and/or cross-beams (83) the intermediate module (7) and/or, as the case may be, the front module (5) or the rearmodule (6) include, and that have between them a separation at least equal to the length of a container (C ; C').

15. Transport vehicle (1) according to any of the preceding claims, characterized in that it includes means for guiding at least one container (C ; C') during its loading onto this transport vehicle (1).

16. Transport vehicle (1) according to any of the preceding claims, characterized in that the front structure (50) and/or the rear structure (60) and/or the intermediate structure (70) and/or the side la structure (9) include at least longitudinal beams (500 ; 600 ; 700 ; 80), even also transversal beams for connecting at least two longitudinal beams (500 ; 600 ; 700 ; 80).

17. Transport vehicle (1) according to claims 10 and 16, characterized in that at least part of the longitudinal beams (500 ; 600 ; 700 ; 80) the structures (50 ; 60 ; 70 ; 9) and/or the means (8) for maintaining laterally include are formed of tubes or boxes having an inner volume for receiving at least the means for synchronizing the rolling means (3 ; 4) of the front (5) and rear (6) modules.