CLAIMS

1. A capturing mechanism for the recovery of at least one vessel to at least one marine platform; said at least one vessel having at least one engagement device; said capturing mechanism comprising:
   a. at least one tensioned capturing line connected to said at least one marine platform; and
   b. at least one line maneuvering mechanism configured to displace said at least one tensioned capturing line in a plurality of directions to make said line playable into and out of the water;

   characterized in that:

   wherein said capturing mechanism is configured to blindly sweep said at least one tensioned capturing line along a substantial portion of a keel-stem line of said at least one vessel toward said engagement device, said sweep being started from a point located underneath the waterline and finished substantially above the waterline and all in a general direction of an upward sweep, said sweep being made until said capturing line is captured by said engagement device.

2. The capturing mechanism of claim 1, wherein at least one of the following is true:
   a. capturing of said at least one tensioned capturing line by said engagement device is at least partially reversible;
   b. said at least one line maneuvering mechanism comprises at least two line arms, said line arms characterized by having a distal end and a proximal end; said at least one tensioned capturing line is connected to said distal portion of said line arms; said proximal end is connected to said at least one marine platform;
   c. each of said at least two line arms is further characterized by at least one anchoring holder for said at least one tensioned capturing line, said at least one anchoring holder being either movable along said at least one line arm or at a fixed position along said at least one line arm;
   d. said system is characterized by at least one mechanism configured to allow development of a 'V'-shape in at least a portion of said at least one tensioned capturing line after capture of said at least one tensioned capturing line by said engagement

device, said mechanism selected from a group consisting of: a mechanism to play out at least a portion of said at least one tensioned capturing line, a mechanism to move at least two of said anchoring holders closer to each other, a mechanism to provide elasticity to said at least one tensioned capturing line and any combination thereof;

e. said at least one marine platform is at least one cradle;

f. said at least one marine platform is open at a stern thereof;

g. shape of said at least one said marine platform either allows water to pass through it or does not allow water to pass through it;

h. at least a portion of said at least one captured vessel is haulable onto at least a portion of said at least one marine platform;

i. said at least one marine platform has a deployable lifting structure:

j. said at least one marine platform is liftable, by means of at least one lifting mechanism, onto at least a portion of at least one second marine platform, either such that said at least one marine platform is not supporting any vessel or such that said at least one marine platform is at least partially supporting said at least one vessel; and

k. said at least one marine platform is connectable to at least a portion of said at least one second marine platform by at least one tow line, said at least one tow line is configured to at least one selected from a group consisting of (a) restrain unwanted movement of said at least one marine platform during hauling of said at least one captured vessel onto said at least one marine platform; (b) restrain unwanted movement of said at least one marine platform during releasing of said at least one vessel from said at least one marine platform; (c) restrain unwanted movement of said at least one marine platform during movement of said at least one vessel onto said at least one marine platform; (d) restrain the motion of said at least one marine platform relative to said at least one second marine platform; and

l. any combination thereof.

3. The capturing mechanism of claim 1, wherein said at least one marine platform additionally comprises at least one movable support stage; at least one of the following being true:

a. at least a portion of said at least one captured vessel is mounted onto at least a portion of said at least one movable support stage;

b. at least a portion of said at least one movable support stage is haulable onto at least a portion of said at least one marine platform;

c. at least one said movable support stage comprises at least one fin and said at least one marine platform comprises at least one groove with which said at least one fin is movable; and

d. any combination thereof.

4. The capturing mechanism of claim 1, wherein said engagement device is selected from a group consisting of:

a. a rearward-facing hook;

b. a magnetic catch; further wherein said at least one tensioned capturing line is characterized by at least one magnetic portion; said at least one said magnetic portion is substantially in either (a) the center of said at least one tensioned capturing line; (b) at one end of said at least one tensioned capturing line; and any combination thereof;

c. a rearward-facing slot in a stem or keel of said at least one vessel; further wherein said at least one tensioned capturing line is characterized by at least one guide configured to catch in said slot and induce said at least one tensioned capturing line to enter said slot;

d. a rearward-facing latch; said rearward-facing latch is configured to be openable under pressure from outside the same and automatically closeable; pressure from inside the same physically preventing opening of said latch, such that escape of said at least one tensioned capturing line from said rearward-facing latch is obviated;

e. a rearward-facing shackle, further wherein said rearward-facing shackle is configured to be openable under pressure from outside the same and automatically closeable, pressure from inside the same physically preventing opening of said shackle, such that escape of said at least one tensioned capturing line from said rearward-facing shackle is obviated; and

f. any combination thereof.

5. The capturing mechanism of claim 1, wherein a member of a group consisting of: said at least one marine platform, said capturing mechanism and any combination thereof is provided with at least one sensor; said at least one sensor is selected from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; said at least one sensor is configured to detect at least one member selected from a group consisting of:

   a. identification that said at least one vessel is in a trapping zone, said trapping zone being a region such that, said at least one engagement device being in said trapping zone, movement of said at least one tensioned capturing line towards the keel or stem and then sweeping of said at least one tensioned capturing line while in contact with said keel of or stem of said vessel towards said engagement device eventuates in contact between said at least one tensioned capturing line and said engagement device;

   b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said capturing mechanism;

   c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

   d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

   e. completion of capturing of said engagement device;

   f. completion of hauling of said at least one captured vessel;

   g. at least one change in position of at least one portion of said capturing mechanism; and

   h. any combination thereof.

6. The capturing mechanism of claim 1, wherein said at least one marine platform additionally comprises at least one actuatable deployable lifting structure connected to said at least one marine platform; said at least one deployable lifting structure is connected at its bottom end

to said at least one marine platform and at its top end to a lifting device (such as a crane); further wherein said at least one deployable lifting structure is characterized by at least two configurations; a stowed configuration which is substantially horizontal with regards to sides of said at least one marine platform such that allows safe hauling of a vessel onto said marine platform with no elements of said stowed lifting structure above said hauled vessel (clear sky); and an erect configuration which is substantially erect such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration; wherein actuation of said deployable lifting structure between stowed and erect configuration can be done during a launch and recovery procedure; at least one of the following being true:

a. said at least one deployable lifting structure is formed so as to substantially conform to the outer sides and front contour of said at least one marine platform when in said stowed configuration;

b. said at least one deployable lifting structure comprises at least two substantially opposite frame bars, said frame bars characterized by a distal end and a proximal end, a connection connecting together said distal ends of said frame bars, said proximal ends of said at least two frame bars hingedly connected to substantially opposite side positions of said at least one marine platform;

c. said at least one deployable lifting structure further comprises at least one guide mechanism, said guide mechanism selected from a group consisting of: a coupler and an interior of said deployable lifting structure; said at least one frame line passing through said at least one guide mechanism so said at least one frame line is pullable at said top end of it, such that when said top end of said at least one frame line is pulled, said at least one deployable lifting structure is configured to be raised from said stowed configuration to said erect configuration;

d. said at least one deployable lifting structure additionally comprises at least two limiters configured to limit a maximum angle of said at least one deployable lifting structure with respect to said at least one marine platform, said limiters configured such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure

in its erect configuration, said maximum angle limitable by prevention of movement of said limiter in at least one direction along said deployable lifting structure leading to a stable lifting arangment; said movement preventable by a member of a group consisting of: at least one guide mechanism, a hole where a frame line enters the frame, a stopping mechanism and any combination thereof; and

e. any combination thereof.

7. The capturing mechanism of claim 1, additionally comprising a set of instructions configured to be executed on a processor which, when executed, at least partially automatically control said recovery of said at least one vessel onto said at least one marine platform, said instructions comprising:

a. instructions which, when executed, are configured to control at least one vessel maneuvering mechansim of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

b. instructions which, when executed, are configured to play out at least one tensioned capturing line; thereby said trapping zone is defined;

c. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when at least a portion of said at least one vessel is identified as being in said trapping zone;

d. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

e. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

f. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea while maintaining at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one

tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device; and

g. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform.

8. The capturing mechanism of claim 7, additionally comprising at least one of the following:

a. instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto at least one second marine platform;

b. instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device; and

c. any combination thereof.

9. A method for recovering at least one vessel to at least one marine platform, said at least one vessel having at least one engagement device either permanently or at least partially reversibly connectable to the same, comprising steps of:

a. connecting at least one tensioned capturing line to said at least one marine platform;

b. providing at least one line maneuvering mechanism configured to displace said at least one tensioned capturing line in a plurality of directions selected from a group consisting of up, down, left, right, forward, backward playable into said at least one marine platform, playable out of said at least one marine platform, to make said line playable out of said at least one marine platform, playable into and out of the water and any combination thereof; placing the tensioned capturing line outside the platform at a depth extending from sea surface to a depth greater than a depth of a keel of said at least one vessel;

c. maneuvering a bow of said at least one vessel into a trapping zone of said at least one marine platform, said trapping zone being a region such that, said at least one

engagement device being in said trapping zone, movement of said at least one tensioned capturing line towards the keel or stem and then sweeping of said at least one tensioned capturing line while in contact with said keel or stem of said vessel towards said engagement device eventuates in contact between said at least one tensioned capturing line and said engagement device;

d. raising said at least one tensioned capturing line upward when said at least one vessel is in said trapping zone; and keeping at least partial contact between said at least one tensioned capturing line and said keel or stem; and

e. playing in said at least one tensioned capturing line, while blindly sweeping said at least one tensioned capturing line along a substantial portion of a keel-stem line of said at least one vessel toward said engagement device and while maintaining at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said at least one engagement device, said sweep being started from a point located underneath the waterline and finished substantially above the waterline and all in a general direction of an upward sweep, said sweep being made until said capturing line is captured by said engagement device.

10. The method of claim 9, additionally comprising at least one of the following steps:

a. at least partially reversibly capturing said at least one tensioned capturing line by said engagement device;

b. providing said at least one line maneuvering mechanism with at least two line arms, said line arms characterized by having a distal end and a proximal end; connecting said at least one tensioned capturing line to said distal portion of said at least two line arms; and connecting said proximal end to said at least one marine platform;

c. providing each of said at least two line arms with at least one anchoring holder for said at least one tensioned capturing line, said anchoring holder being either movable along said line arm or in a fixed position in said line arm, and, said anchoring holder being

movable along said line arm, moving said at least one anchoring holder along said at least one line arm;

d. allowing development of a 'V'-shape in at least a portion of said at least one tensioned capturing line after capture of said at least one tensioned capturing line by said engagement device, by means of a member of a group consisting of: playing out at least a portion of said at least one tensioned capturing line, allowing at least two of said anchoring holders to approach each other, providing elasticity to said at least one tensioned capturing line and any combination thereof;

e. providing said at least one marine platform as at least one cradle;

f. providing said at least one marine platform open at a stern thereof;

g. providing said at least one marine platform with shape of said at least one said marine platform either allows water to pass through it or does not allow water to pass through it;

h. hauling said at least one said captured vessel at least partly onto at least a portion of said at least one marine platform and any combination thereof;

i. providing said at least one marine platform with a deployable lifting structure:

j. lifting, by means of at least one lifting mechanism, said at least one marine platform onto at least one second marine platform, either such that said at least one marine platform is not supporting any vessel or such that said at least one marine platform is at least partially supporting said at least one vessel;

k. connecting said at least one marine platform to said at least one second marine platform by at least one tow line, said at least one tow line is configured to at least one selected from a group consisting of (a) restrain unwanted movement of said at least one marine platform during hauling of said at least one captured vessel onto said at least one marine platform; (b) restrain unwanted movement of said at least one marine platform during releasing of said at least one vessel from said at least one marine platform; (c) restrain unwanted movement of said at least one marine platform during movement of said at least one vessel onto said at least one marine platform; (d) restrain

the motion of said at least one marine platform relative to said at least one second marine platform; and any combination thereof; and

l. any combination thereof.

11. The method of claim 9, additionally comprising step of providing at least one movable support stage for said at least one marine platform; additionally comprising at least one of the following steps:

a. mounting at least a portion of said at least one captured vessel onto at least a portion of at least one said movable support stage;

b. hauling at least a portion of said at least one movable support stage onto at least a portion of said at least one marine platform;

c. providing at least one said movable support stage with at least one fin and providing said at least one marine platform with at least one groove with which said at least one fin is movable; and

d. any combination thereof.

12. The method of claim 9, additionally comprising selecting said at least one engagement device from at least one member of a group consisting of:

a. a rearward-facing hook;

b. a magnetic catch, further wherein said at least one tensioned capturing line is characterized by at least one magnetic portion; said at least one said magnetic portion is substantially in either (a) the center of said at least one tensioned capturing line; (b) at one end of said at least one tensioned capturing line; and any combination thereof;

c. a rearward-facing slot in a stem or keel of said at least one vessel, further wherein said at least one tensioned capturing line is characterized by at least one guide configured to catch in said slot and induce said at least one tensioned capturing line to enter said slot;

d. a rearward-facing latch; further wherein said rearward-facing latch is configured to be openable under pressure from outside the same and automatically closeable; pressure from inside the same physically preventing opening of said latch, such that escape of said at least one tensioned capturing line from said rearward-facing latch is obviated;

e. a rearward-facing shackle, further wherein said rearward-facing shackle is configured to be openable under pressure from outside the same and automatically closeable; pressure from inside the same physically preventing opening of said shackle, such that escape of said at least one tensioned capturing line from said rearward-facing shackle is obviated; and

f. any combination thereof.

13. The method of claim 9, additionally comprising steps of: providing a member of a group consisting of said at least one marine platform, at least one capturing mechanism and any combination thereof with at least one sensor; and selecting said at least one sensor from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; and detecting, via said at least one sensor, at least one member selected from a group consisting of:

a. identification that said at least one vessel is in said trapping zone;

b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said at least one capturing mechanism;

c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

e. completion of capturing of said engagement device;

f. completion of hauling of said at least one captured vessel;

g. at least one change in position of at least one portion of said at least one capturing mechanism;

h. and any combination thereof.

14. The method of claim 10, additionally comprising steps of:

a. providing, for said at least one marine platform, at least one actuatable deployable lifting structure;

b. connecting said at least one deployable lifting structure at its bottom end to said at least one marine platform and at its top end to a lifting device (such as a crane);

c. reversibly transitioning said at least one deployable lifting structure between a stowed configuration and an erect configuration; said stowed configuration being substantially horizontal with regard to sides of said at least one marine platform such that allows safe hauling of a vessel onto said marine platform with no elements of said stowed lifting structure above said hauled vessel (clear sky); said erect configuration being substantially erect such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration; wherein actuation of deployable lifting structure between stowed and erect configuration can be done during a launch and recovery procedure.

15. The method of claim 14, additionally comprising at least one of the following steps:

a. forming said at least one deployable lifting structure so as to substantially conform to the outer sides and front contour of said at least one marine platform when in said stowed configuration;

b. providing said at least one deployable lifting structure with at least two substantially opposite frame bars, said frame bars characterized by a distal end and a proximal end, providing a connection between said distal ends of said frame bars, and hingedly

connecting said proximal end of said frame bars to substantially opposite side positions of said at least one marine platform;

c. providing said at least one deployable lifting structure with at least one guide mechanism, said guide mechanism selected from a group consisting of: a coupler and an interior of said deployable lifting structure; passing said at least one frame line through said at least one guide mechanism;

d. providing said at least one deployable lifting structure with at least two limiters configured to limit a maximum angle of said at least one deployable lifting structure with respect to said at least one marine platform, said at least two limiters configured such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration, said maximum angle limitable by prevention of movement of said limiter in at least one direction along said deployable lifting structure leading to a stable lifting arangment; said movement preventable by a member of a group consisting of: at least one guide mechanism, a hole where a frame line enters the frame, a stopping mechanism and any combination thereof;

e. pulling said at least one frame line at said top end of said at least one deployable lifting structure, thereby reversibly transitioning said at least one deployable lifting structure from said stowed configuration to said erect configuration;

f. lifting said at least one marine platform onto at least one second marine platform by pulling on said at least one frame line at said top end of said deployable lifting structure; and

g. any combination thereof.

16. The method of claim 9, additionally comprising at least partially automatically controlling recovery of said at least one vessel onto said at least one marine platform, comprising steps of:

a. providing a set of instructions, comprising:

i. instructions which, when executed, are configured to control at least one vessel maneuvering mechanism of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

ii. instructions which, when executed, are configured to play out at least one tensioned capturing line; thereby said trapping zone is defined;

iii. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when at least a portion of said at least one vessel is identified as being in said trapping zone;

iv. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

v. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

vi. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea, thereby blindly sweeping said at least one tensioned capturing line along a substantial portion of a keel-stem line of said vessel, while maintaining at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device; and

vii. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform; and

b. executing said instructions.

17. The method of claim 16, additionally comprising at least one of the following steps:

    a. providing instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device;

    b. providing instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto at least one second marine platform; and

    c. any combination thereof.

18. An actuatable deployable lifting structure connected at its bottom end to at least one marine platform comprising the capturing mechanism according to claim 1 and at its top end to a lifting device (such as a crane); wherein said deployable lifting structure is characterized by at least two configurations; a stowed configuration which is substantially horizontal with regard to sides of said at least one marine platform such that allows safe hauling of a vessel onto said marine platform with no elements of said stowed lifting structure above said hauled vessel (clear sky); and an erect configuration which is substantially erect such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration: actuation of deployable lifting structure between stowed and erect configuration can be done during a launch and recovery procedure;

19. The deployable lifting structure of claim 18, wherein at least one of the following is true:

    a. said deployable lifting structure is formed so as to substantially conform to the outer sides and front contour of said at least one marine platform when in said stowed configuration;

    b. said deployable lifting structure comprises at least one frame line connected at its bottom end to said at least one marine platform:

    c. said deployable lifting structure comprises at least two substantially opposite frame bars, said frame bars characterized by a distal end and a proximal end, a connection

connecting together said distal ends of said frame bars, said proximal ends of said at least two frame bars hingedly connected to substantially opposite side positions of said at least one marine platform;

d. said deployable lifting structure further comprises at least one guide mechanism, said guide mechanism selected from a group consisting of: a coupler and an interior of said deployable lifting structure, said at least one frame line passing through said at least one guide mechanism so that said at least one frame line is pullable at said top end of said deployable lifting structure, said pull on said frame line at said top end of said deployable lifting structure configured to raise said deployable lifting structure from said stowed configuration to said erect configuration;

e. said deployable lifting structure additionally comprises at least two limiters configured to limit a maximum angle of said deployable lifting structure with respect to said at least one marine platform, said limiters configured such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration, said maximum angle limitable by prevention of movement of said limiter in at least one direction along said deployable lifting structure leading to a stable lifting arangment; said movement preventable by a member of a group consisting of: at least one guide mechanism, a hole where a frame line enters the frame, a stopping mechanism and any combination thereof; and

f. any combination thereof.

20. The deployable lifting structure of claim 18, wherein said at least one marine platform additionally comprises at least one capturing mechanism for recovery of at least one vessel to said at least one marine platform, said at least one capturing mechanism comprising: (a) at least one tensioned capturing line connected to said at least one marine platform; and (b) at least one line maneuvering mechanism configured to displace said at least one tensioned capturing line in at least one direction selected from a group consisting of up, down, left, right, forward, backward, playable into said at least one marine platform, playable out of said at least one marine platform, playable into and out of the water and any combination

thereof; said at least one tensioned capturing line is capturable by said engagement device upon at least partial contact between the same and said at least one tensioned capturing line.

21. The deployable lifting structure of claim 20, wherein said at least one vessel has at least one engagement device either permanently or at least partially reversibly connectable to the same; said engagement device comprises at least one member of a group consisting of:

    a. a rearward-facing hook;

    b. a magnetic catch, further wherein said at least one tensioned capturing line is characterized by at least one magnetic portion; said at least one said magnetic portion is substantially in either (a) the center of said at least one tensioned capturing line; (b) at one end of said at least one tensioned capturing line; and any combination thereof;

    c. a rearward-facing slot in a stem or keel of said at least one vessel, further wherein said at least one tensioned capturing line is characterized by at least one guide configured to catch in said slot and induce said at least one tensioned capturing line to enter said slot;

    d. a rearward-facing latch; further wherein said rearward-facing latch is configured to be openable under pressure from outside the same and automatically closeable; pressure from inside the same physically preventing opening of said latch, such that escape of said at least one tensioned capturing line from said rearward-facing latch is obviated;

    e. a rearward-facing shackle, further wherein said rearward-facing shackle is configured to be openable under pressure from outside the same and automatically closeable, pressure from inside the same physically preventing opening of said shackle, such that escape of said at least one tensioned capturing line from said rearward-facing shackle is obviated; and

    f. any combination thereof.

22. The deployable lifting structure of claim 20, wherein at least one of the following is true:

a. capturing of said at least one tensioned capturing line by said engagement device is at least partially reversible;

b. said at least one line maneuvering mechanism comprises at least two line arms, each of said at least two line arms characterized by having a distal portion and a proximal portion; said at least one tensioned capturing line is connected to said distal portion of each of said at least two line arms; said proximal portion is connected to said at least one marine platform;

c. each of said at least two line arms is further characterized by at least one anchoring holder for said at least one tensioned capturing line, said at least one anchoring holder being either movable along at least one of said at least two line arms or at a fixed position along said at least one of said at least two line arms;

d. said system is characterized by at least one mechanism configured to allow development of a 'V'-shape in at least a portion of said at least one tensioned capturing line after capture of said at least one tensioned capturing line by said engagement device, said mechanism selected from a group consisting of: a mechanism to play out at least a portion of said at least one tensioned capturing line, a mechanism to move at least two of said anchoring holders closer to each other, a mechanism to provide elasticity to said at least one tensioned capturing line and any combination thereof;

e. said at least one said marine platform is at least one cradle;

f. said at least one marine platform is open at a stern thereof;

g. shape of said at least one said marine platform either allows water to pass through it or does not allow water to pass through it;

h. at least a portion of said at least one captured vessel is haulable onto at least a portion of said at least one marine platform;

i. said at least one marine platform has a deployable lifting structure:

j. said at least one marine platform is liftable, by means of at least one lifting mechanism, onto at least one second marine platform, either such that said at least one marine

platform is not supporting any vessel or such that said at least one marine platform is at least partially supporting said at least one vessel; and

k. said at least one marine platform is connectable to said at least one second marine platform by at least one tow line, said at least one tow line is configured to at least one selected from a group consisting of (a) restrain unwanted movement of said at least one marine platform during hauling of said at least one captured vessel onto said at least one marine platform; (b) restrain unwanted movement of said at least one marine platform during releasing of said at least one vessel from said at least one marine platform; (c) restrain unwanted movement of said at least one marine platform during movement of said at least one vessel onto said at least one marine platform; (d) restrain the motion of said at least one marine platform relative to said at least one second marine platform; and

l. any combination thereof.

23. The deployable lifting structure of claim 18, wherein said at least one marine platform additionally comprises at least one movable support stage; at least one of the following being true:

a. at least a portion of said at least one captured vessel is mounted onto at least a portion of said at least one movable support stage;

b. at least a portion of said at least one movable support stage is haulable onto at least a portion said at least one marine platform;

c. at least one said movable support stage comprises at least one fin and said at least one marine platform comprises at least one groove with which said at least one fin is movable; and

d. any combination thereof.

24. The deployable lifting structure of claim 18, wherein a member of a group consisting of: said at least one marine platform, said at least one capturing mechanism and any combination thereof is provided with at least one sensor; said at least one sensor is selected

from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; said at least one sensor is configured to detect at least one member selected from a group consisting of:

a. identification that said at least one vessel is in a trapping zone, said trapping zone being a region such that, said at least one engagement device being in said trapping zone, movement of said at least one tensioned capturing line towards a keel or stem and then towards said engagement device eventuates in contact between said at least one tensioned capturing line and said engagement device;

b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said at least one capturing mechanism;

c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

e. completion of capturing of said engagement device;

f. completion of hauling of said at least one captured vessel;

g. at least one change in position of at least one portion of said at least one capturing mechanism; and

h. any combination thereof.

25. The deployable lifting structure of claim 18, additionally comprising a set of instructions configured to be executed on a processor which, when executed, at least partially automatically control said recovery of said at least one vessel onto said at least one marine platform, said instructions comprising:

a. instructions which, when executed, are configured to control said at least one vessel maneuvering mechanism of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

b. instructions which, when executed, are configured perform at least one of a group consisting of: play out at least one tensioned capturing line, maneuver at least one of said at least two line arms and any combination thereof; thereby said trapping zone is defined;

c. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when said at least one vessel is identified as being in said trapping zone;

d. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

e. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

f. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea thereby blindly sweeping said at least one tensioned capturing line aong a keel-stem line while maintaining at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device; and

g. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform.

26. The deployable lifting structure of claim 25, additionally comprising at least one of the following:

a. instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device;

b. instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto said at least one marine platform; and

c. any combination thereof.

27. A method of deploying a deployable lifting structure, comprising steps of:

a. providing said deployable lifting structure comprising at least one frame line;

b. hingedly connecting said deployable lifting structure to at least one marine platform;

c. connecting said at least one frame line at its bottom end to said at least one marine platform comprising the capturing mechanism according to claim 1; passing said at least one frame line through at least one guide mechanism in said frame, said guide mechanism selected from a group consisting of: a coupler and an interior of said deployable lifting structure;

d. pulling said at least one frame line at said top end of said at least one deployable lifting structure, thereby reversibly transitioning said at least one deployable lifting structure from said stowed configuration to said erect configuration;

wherein said stowed configuration is characterized by said deployable lifting structure being substantially horizontal with regard to sides of said at least one marine platform such that allows safe hauling of a vessel onto said marine platform with no elements of said stowed lifting structure above said hauled vessel (clear sky); such that allows safe hauling of a vessel onto said marine platform with no elements of said stowed lifting structure above said hauled vessel (clear sky);

further wherein said erect configuration is characterized by said deployable lifting structure being substantially erect such that a center of gravity of said at least one marine platform, with or without at least one vessel on board, is substantially under a top end of said deployable lifting structure in its erect configuration.

28. The method of claim 27, additionally comprising at least one of the following steps:

a. forming said deployable lifting structure so as to substantially conform to the outer sides and front contour of said at least one marine platform when in said stowed configuration;

b. providing said deployable lifting structure with at least two substantially opposite frame bars, said frame bars characterized by a distal end and a proximal end, providing a connection between said distal ends of said frame bars, and hingedly connecting said proximal end of said at least two frame bars to substantially opposite side positions of said at least one marine platform;

c. providing said deployable lifting structure with at least one guide mechanism; passing said at least one frame line through said at least one guide mechanism, said guide mechanism selected from a group consisting of: a coupler and an interior of said deployable lifting structure;

d. providing said deployable lifting structure with at least two limiters configured to limit a maximum angle of said deployable lifting structure with respect to said at least one marine platform, said limiters configured such that a center of gravity of said at least one marine platform, with or without said at least one vessel on board, substantially under the top end of said deployable lifting structure in its erect configuration, said maximum angle limitable by prevention of movement of said limiter in at least one direction along said deployable lifting structure leading to a stable lifting arangment; said movement preventable by a member of a group consisting of: at least one guide mechanism, a hole where a frame line enters the frame, a stopping mechanism and any combination thereof;

e. pulling said at least one frame line at said top end of said deployable lifting structure, thereby reversibly transitioning said deployable lifting structure, via said pull on said frame line, from said stowed configuration to said erect configuration;

f. lifting said at least one marine platform onto at least one second marine platform by pulling on said at least one frame line at said top end of said deployable lifting structure; and

g. any combination thereof.

29. The method of claim 27, additionally comprising step of providing said at least one vessel with at least one engagement device either permanently or at least partially reversibly connectable to the same; and selecting said at least one engagement device from at least one member of a group consisting of:

a. a rearward-facing hook;

b. a magnetic catch, further wherein said at least one tensioned capturing line is characterized by at least one magnetic portion; said at least one said magnetic portion is substantially in either (a) the center of said at least one tensioned capturing line; (b) at one end of said at least one tensioned capturing line; and any combination thereof;

c. a rearward-facing slot in a stem or keel of said at least one vessel, further wherein said at least one tensioned capturing line is characterized by at least one guide configured to catch in said slot and induce said at least one tensioned capturing line to enter said slot;

d. a rearward-facing latch; further wherein said rearward-facing latch is configured to be openable under pressure from outside the same and automatically closeable, pressure from inside the same physically preventing opening of said latch, such that escape of said at least one tensioned capturing line from said rearward-facing latch is obviated;

e. a rearward-facing shackle, further wherein said rearward-facing shackle is configured to be openable under pressure from outside the same and automatically closeable, pressure from inside the same physically preventing opening of said shackle, such that escape of said at least one tensioned capturing line from said rearward-facing shackle is obviated; and

f. any combination thereof.

30. The method of claim 27, additionally comprising step of providing at least one capturing mechanism for recovery of said at least one vessel to said at least one marine platform, said at least one capturing mechanism in mechanical communication with said at least one

marine platform, said at least one capturing mechanism comprising (a) said at least one tensioned capturing line; and (b) at least one line maneuvering mechanism configured to displace said at least one tensioned capturing line in at least one direction selected from a group consisting of up, down, left, right, forward, backward, playable into said at least one marine platform, playable out of said at least one marine platform, playable into and out of the water and any combination thereof; said at least one tensioned capturing line is capturable by said engagement device upon at least partial contact between the same and said at least one tensioned capturing line.

31. The method of claim 27, additionally comprising at least one of the following steps:

a. at least partially reversibly capturing said at least one tensioned capturing line by said engagement device;

b. providing said at least one line maneuvering mechansim with at least two line arms, each of said at least two line arms characterized by having a distal portion and a proximal portion; connecting said at least one tensioned capturing line to said distal portion of each of said at least two line arms; and connecting said proximal portions to said at least one marine platform;

c. providing each of said at least two line arms with at least one anchoring holder for said at least one tensioned capturing line, said anchoring holder being either movable along said line arm or in a fixed position in said line arm, and, said anchoring holder being movable along said line arm, moving said at least one anchoring holder along said at least one line arm;

d. allowing development of a 'V'-shape in at least a portion of said at least one tensioned capturing line after capture of said at least one tensioned capturing line by said engagement device, by means of a member of a group consisting of: playing out a portion of said at least one tensioned capturing line, allowing at least two of said anchoring holders to approach each other, providing elasticity to said at least one tensioned capturing line and any combination thereof;

e. providing said at least one marine platform as at least one cradle;

f. providing said at least one marine platform open at a stern thereof;

g. providing said at least one marine platform with shape of said at least one said marine platform either allows water to pass through it or does not allow water to pass through it;

h. hauling said at least one vessel at least partly onto at least a portion of said at least one marine platform;

i. lifting, by means of at least one lifting mechanism, said at least one marine platform onto said at least one second marine platform, either such that said at least one marine platform is not supporting any vessel or such that said at least one marine platform is at least partially supporting said at least one vessel;

j. connecting said at least one marine platform to said at least one second marine platform by at least one tow line, said at least one tow line is configured to at least one selected from a group consisting of (a) restrain unwanted movement of said at least one marine platform during hauling of said at least one captured vessel onto said at least one marine platform; (b) restrain unwanted movement of said at least one marine platform during releasing of said at least one vessel from said at least one marine platform; (c) restrain unwanted movement of said at least one marine platform during movement of said at least one vessel onto said at least one marine platform; (d) restrain the motion of said at least one marine platform relative to said at least one second marine platform; and any combination thereof; and

k. any combination thereof.

32. The method of claim 27, additionally comprising step of providing at least one movable support stage for said at least one marine platform; and additionally comprising at least one of the following steps:

a. mounting at least a portion of said at least one captured vessel onto at least a portion of at least one said movable support stage;

b. hauling at least a portion of said at least one movable support stage onto at least a portion of said at least one marine platform;

c. providing at least one said movable support stage with at least one fin and said at least one marine platform with at least one groove with which said at least one fin is movable; and

d. any combination thereof.

33. The method of claim 27, additionally comprising steps of: providing a member of a group consisting of: said at least one marine platform, said at least one capturing mechanism and any combination thereof with at least one sensor; selecting said at least one sensor from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; and detecting, via said at least one sensor, at least one member selected from a group consisting of:

a. Identification that said at least one vessel is in a trapping zone, said trapping zone being a region such that, said at least one engagement device being in said trapping zone, movement of said at least one tensioned capturing line towards the keel or stem and then sweeping of said at least one tensioned capturing line while in contact with said keel or stem of said vessel towards said engagement device eventuates in contact between said at least one tensioned capturing line and said engagement device;

b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said at least one capturing mechanism;

c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

e. completion of capturing of said engagement device;

f. completion of hauling of said at least one captured vessel;

g. at least one change in position of at least one portion of said at least one capturing mechanism;

h. and any combination thereof.

34. The method of claim 27, additionally comprising at least partially automatically controlling recovery of said at least one vessel onto said at least one marine platform, comprising steps of:

a. providing a set of instructions, comprising:

i. instructions which, when executed, are configured to control said at least one vessel maneuvering mechanism of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

ii. instructions which, when executed, are configured to play out at least one tensioned capturing line; thereby said trapping zone is defined;

iii. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when at least a portion of said at least one vessel is identified as being in said trapping zone;

iv. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

v. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

vi. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea, thereby blindly sweeping said at least one tensioned capturing line along a substantial portion of a keel-stem line while maintaining said at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one tensioned

capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device; and

vii. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform; and

b. executing said instructions.

35. The method of claim 34, additionally comprising at least one of the following steps:

a. providing instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device;

b. providing instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto said at least one second marine platform; and

c. any combination thereof.

36. An engagement device either permanently or at least partially reversibly connectable to at least one vessel, configured to automatically capture a dynamically moving at least one tensioned capturing line said dynamically moving at least one tensioned capturing line being blindly sweepable along a substantial portion of a keel-stem line of said at least one vessel, said sweep being started from a point located underneath the waterline and finished substantially above the waterline and all in a general direction of an upward sweep, said sweep being made until said capturing line is captured by said engagement device.

37. The engagement device of claim 36, wherein said engagement device is connectable to said at least one vessel at a location selected from a group consisting of a keel of said at least one

vessel, a prow of said at least one vessel, a stem of said at least one vessel, a bottom of said at least one vessel, a stern of said at least one vessel, and any combination thereof; said engagement device comprising at least one member of a group consisting of:

a. a rearward-facing hook;

b. a magnetic catch, further wherein said at least one tensioned capturing line is characterized by at least one magnetic portion; said at least one said magnetic portion is substantially in either (a) the center of said at least one tensioned capturing line; (b) at one end of said at least one tensioned capturing line; and any combination thereof;

c. a rearward-facing slot in a stem or keel of said at least one vessel, further wherein said at least one tensioned capturing line is characterized by at least one guide configured to catch in said slot and induce said at least one tensioned capturing line to enter said slot;

d. a rearward-facing latch; further wherein said rearward-facing latch is configured to be openable under pressure from outside the same and automatically closeable, pressure from inside the same physically preventing opening of said latch, such that escape of said at least one tensioned capturing line from said rearward-facing latch is obviated;

e. a rearward-facing shackle, further wherein said rearward-facing shackle is configured to be openable under pressure from outside the same and automatically closeable, pressure from inside the same physically preventing opening of said shackle, such that escape of said at least one tensioned capturing line from said rearward-facing shackle is obviated; and

f. any combination thereof.

38. The engagement device of claim 36 is further characterized by:

a. said at least one tensioned capturing line is connected to at least one marine platform; and

b. at least one line maneuvering mechanism in said at least one marine platform is configured to displace said at least one tensioned capturing line in at least one direction

selected from a group consisting of up, down, left, right, forward, backward, playable into said at least one marine platform, playable out of said at least one marine platform, playable into and out of the water and any combination thereof;

said at least one tensioned capturing line being capturable by said engagement device upon at least partial contact between the same and said at least one tensioned capturing line.

39. The engagement device of claim 38, wherein a member of a group consisting of: said at least one marine platform, said at least one capturing mechanism and any combination thereof is provided with at least one sensor; said at least one sensor is selected from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; said at least one sensor is configured to detect at least one member selected from a group consisting of:

a. identification that said at least one vessel is in said trapping zone;

b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said at least one capturing mechanism;

c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

e. completion of capturing of said engagement device;

f. completion of hauling of said at least one captured vessel;

g. at least one change in position of at least one portion of said at least one capturing mechanism; and

h. any combination thereof.

40. The engagement device of claim 38, wherein at least one of the following is true:

a. said at least one line maneuvering mechanism comprises at least two line arms, each of said line arms characterized by having a distal portion and a proximal portion; said at least one tensioned capturing line is connected to each of said distal portions of said at least two line arms; said proximal ends are connected to said at least one marine platform;

b. each of said at least two line arms is further characterized by at least one anchoring holder for said at least one tensioned capturing line, said at least one anchoring holder being either movable along said at least one of said at leat two line arms or at a fixed position along said at least one of said at least two line arms;

c. said system is characterized by at least one mechanism configured to allow development of a 'V'-shape in at least a portion of said at least one tensioned capturing line after capture of said at least one tensioned capturing line by said engagement device, said mechanism selected from a group consisting of: a mechanism to play out at least a portion of said at least one tensioned capturing line, a mechanism to move at least two of said anchoring holders closer to each other, a mechanism to provide elasticity to said at least one tensioned capturing line and any combination thereof;

d. said at least one marine platform is at least one cradle;

e. said at least one marine platform is open at a stern thereof;

f. shape of said at least one said marine platform either allows water to pass through it or does not allow water to pass through it;

g. at least a portion of said at least one captured vessel is haulable onto said at least one marine platform;

h. said at least one marine platform is liftable, by means of at least one lifting mechanism, onto at least one second marine platform, either such that said at least one marine platform is not supporting any vessel or such that said at least one marine platform is at least partially supporting said at least one vessel; and

i. said at least one marine platform is connectable to said at least one second marine platform by at least one tow line, said at least one tow line is configured to at least one selected from a group consisting of (a) restrain unwanted movement of said at least one marine platform during hauling of said at least one captured vessel onto said at least one marine platform; (b) restrain unwanted movement of said at least one marine platform during releasing of said at least one vessel from said at least one marine platform; (c) restrain unwanted movement of said at least one marine platform during movement of said at least one vessel onto said at least one marine platform; (d) restrain the motion of said at least one marine platform relative to said at least one second marine platform; and

j. any combination thereof.

41. The engagement device of claim 38, wherein said at least one marine platform a additionally comprises at least one movable support stage; at least one of the following being true:

a. at least a portion of said at least one captured vessel is mounted onto at least a portion of said at least one movable support stage;

b. at least a portion of said at least one movable support stage is haulable onto at least a portion said at least one marine platform;

c. at least one said movable support stage comprises at least one fin and said at least one marine platform comprises at least one groove with which said at least one fin is movable; and

d. any combination thereof.

42. The engagement device of claim 38, wherein said at least one marine platform additionally comprises at least one actuatable deployable lifting structure connected to said at least one marine platform; said at least one deployable lifting structure is connected at its bottom end to said at least one marine platform and at its top end to a lifting device (such as a crane); said at least one deployable lifting structure is characterized by at least two configurations; a stowed configuration which is substantially horizontal with regards to sides of said at least

one marine platform such that allows safe hauling of a vessel onto said marine platform with no elements of said stowed lifting structure above said hauled vessel (clear sky); and an erect configuration which is substantially erect such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration; actuation of deployable lifting structure between stowed and erect configuration can be done during a launch and recovery procedure:

a. said at least one deployable lifting structure is formed so as to substantially conform to the outer sides and front contour of said at least one marine platform when in said stowed configuration;

b. Said deployable lifting structure comprises at least one frame line connected at its bottom end to said at least one marine platform:

c. said at least one deployable lifting structure comprises at least two substantially opposite frame bars, said frame bars characterized by a distal end and a proximal end, a connection connecting together said distal ends of said frame bars, said proximal ends of said at least two frame bars hingedly connected to substantially opposite side positions of said at least one marine platform;

d. said at least one deployable lifting structure further comprises at least one guide mechanism, said guide mechanism selected from a group consisting of: a coupler and an interior of said deployable lifting structure; said at least one frame line passing through said at least one guide mechanism so said at least one frame line is pullable at said top end of said at least one deployable lifting structure, said pull on said top end of said at least one deployable lifting structure configured to raise said at least one deployable lifting structure from said stowed configuration to said erect configuration;

e. said at least one deployable lifting structure additionally comprises at least two limiters configured to limit a maximum angle of said at least one deployable lifting structure with respect to said at least one marine platform, said limiters configured such that a center of gravity of said at least one marine platform, with or without a vessel on board, is substantially under the top end of said deployable lifting structure in its erect configuration, said maximum angle limitable by prevention of movement

of said limiter in at least one direction along said deployable lifting structure leading to a stable lifting arangment; said movement preventable by a member of a group consisting of: at least one guide mechanism, a hole where a frame line enters the frame, a stopping mechanism and any combination thereof; and

f. any combination thereof.

43. The engagement device of claim 38, additionally comprising a set of instructions configured to be executed on a processor which, when executed, at least partially automatically control said recovery of said at least one vessel onto said at least one marine platform, said instructions comprising:

a. instructions which, when executed, are configured to control at least one vessel maneuvering mechanism of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

b. instructions which, when executed, are configured to play out at least one tensioned capturing line; thereby said trapping zone is defined;

c. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when at least a portion of said at least one vessel is identified as being in said trapping zone;

d. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

e. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

f. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea, thereby blindly sweeping said at least one tensioned capturing line aong a keel-stem line, while maintaining said at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least

one tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device; and

g. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform.

44. The engagement device of claim 43, additionally comprising at least one of the following:

a. instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device;

b. instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto at least one second marine platform; and

c. any combination thereof.

45. A set of instructions configured to be executed on a processor which, when executed, at least partially automatically controls recovery of at least one vessel onto at least one marine platform, said instructions comprising:

a. instructions which, when executed, are configured to control at least one vessel maneuvering mechanism of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

b. instructions which, when executed, are configured to play out at least one tensioned capturing line; thereby a trapping zone is defined; said trapping zone being a region such that, said at least one engagement device being in said trapping zone, movement of said at least one tensioned capturing line towards the keel or stem and then sweeping of said at least one tensioned capturing line while in contact with said keel or stem of said vessel towards said engagement device eventuates in contact between said at least one tensioned capturing line and said engagement device;

c. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when said at least one vessel is identified as being in said trapping zone;

d. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

e. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

f. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea, thereby blindly sweeping said at least one tensioned capturing line aong a keel-stem line, while maintaining said at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device, said sweep being started from a point located underneath the waterline and finished substantially above the waterline and all in a general direction of an upward sweep, said sweep being made until said capturing line is captured by said engagement device; and

g. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform.

46. The set of instructions of claim 45, additionally comprising at least one of the following:

a. instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device;

b. instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto at least one second marine platform; and

c. any combination thereof.

47. The set of instructions of claim 45, wherein a member of a group consisting of: said at least one marine platform, at least one capturing mechanism and any combination thereof is provided with at least one sensor; said at least one sensor is selected from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; said at least one sensor is in communication with said processor; said at least one sensor is configured to detect and to communicate with said processor at least one member selected from a group consisting of:

a. identification that said at least one vessel is in said trapping zone;

b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said at least one capturing mechanism;

c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

e. completion of capturing of said engagement device;

f. completion of hauling of said at least one captured vessel;

g. at least one change in position of at least one portion of said at least one capturing mechanism; and

h. any combination thereof.

48. A method of at least partially automatically controlling recovery of at least one vessel onto at least one marine platform, comprising steps of:

a. providing a set of instructions, comprising:

i. instructions which, when executed, are configured to control at least one vessel maneuvering mechanism of said at least one vessel; said at least one vessel maneuvering mechanism is selected from a group consisting of: an engine of said at least one vessel, steering of said at least one vessel and any combination thereof;

ii. instructions which, when executed, are configured to play out at least one tensioned capturing line; thereby a trapping zone is defined, said trapping zone being a region such that, said at least one engagement device being in said trapping zone, movement of said at least one tensioned capturing line towards the keel or stem and then sweeping of said at least one tensioned capturing line while in contact with said keel or stem of vessel towards said engagement device eventuates in contact between said at least one tensioned capturing line and said engagement device; and to keep in contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

iii. instructions which, when executed, are configured to raise said at least one tensioned capturing line upward, when said at least one vessel is identified as being in said trapping zone;

iv. instructions which, when executed, are configured to identify, from a signal from at least one sensor as comprised in the marine platform, contact between said at least one tensioned capturing line and said at least one vessel;

v. instructions which, when executed, are configured to keep at least partial contact between said at least one tensioned capturing line and a keel or stem of said at least one vessel;

vi. instructions which, when executed, are configured to play in said at least one tensioned capturing line in a sea, thereby blindly sweeping said at least one tensioned capturing line aong a keel-stem line, while maintaining at least partial contact between said at least one tensioned capturing line and said keel or stem, so as to cause said at least one tensioned capturing line to contact at least one engagement device, said contact inducing capture of said at least one tensioned capturing line by said engagement device; said sweep being started from a point

located underneath the waterline and finished substantially above the waterline and all in a general direction of an upward sweep, said sweep being made until said capturing line is captured by said engagement device; and

vii. instructions which, when executed, are configured to haul said at least one captured vessel to said at least one marine platform; and

b. executing said instructions.

49. The method of claim 48, additionally comprising steps of:

a. providing instructions which, when executed, are configured to reduce thrust of said at least one vessel after said at least one tensioned capturing line has been captured by said engagement device;

b. providing instructions which, when executed, are configured to lift said at least one marine platform, by means of a lifting mechanism, onto at least one second marine platform; and

c. any combination thereof.

50. The method of claim 48, additionally comprising steps of: providing a member of a group consisting of: said at least one marine platform, at least one capturing mechanism and any combination thereof with at least one sensor; selecting said at least one sensor from a group consisting of a tension sensor, a pressure sensor, an optical sensor, a proximity sensor, a force sensor, a position sensor, a speed sensor, an acceleration sensor, an acoustic sensor, a vibration sensor, a tilt sensor, a strain gauge, and any combination thereof; placing said at least one sensor is in communication with said processor; detecting, via said at least one sensor, at least one member selected from a group consisting of:

a. identification that said at least one vessel is in said trapping zone;

b. entry of said at least one engagement device of said at least one vessel into said trapping zone of said at least one capturing mechanism;

c. at least partial contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

d. lack of contact between said at least one tensioned capturing line and said at least one keel or stem line of a vessel;

e. completion of capturing of said engagement device;

f. completion of hauling of said at least one captured vessel;

g. at least one change in position of at least one portion of said at least one capturing mechanism; and

h. any combination thereof; and

i. communicating at least one signal detected by said at least one sensor to said processor.