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Search history

Search 1: STAC=(river and transport and boat and cable) (Results 16)
Search 2: STAC=(river and transport and boat) (Results 147)
Search 3: STAC=(transport and boat and cable and rail) (Results 41)

1) Family number: 21843622 (US2389338A)

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Title: BOAT LAUNCHING TRAILER

Abstract: In order to free the boat from its floating carrier IB, the rear end of the carrier is pushed with a paddle or the like downwardly. Any lateral forces which tend to bring the boat carrier B out of alignment with the ramp C or even attempt to separate the boat carrier B from the ramp C are being resisted to by the particular arrangement and construction of the latching devices. Both side members 39 and 10 of the boat carrier B have hxedly attached to their outer faces immediately behind the front wheels 6 an adapter plate 5 (Figs. 10 and 13) for the detachable mounting of guide bar assemblies which are used only and attached to the boat carrier B only during the retrieving operation of the boat. The adapter plate 5 is secured to the side member 39 and All by countersunk screws 1A, and, as particularly shown in Fig. 10, is provided with two vertical spaced and outwardly projecting guide pins 68 and E9 and between the same with a threaded stud 10 adapted to receive a washer 11 and a wing nut 12. Each guide bar assembly (Figs. 13, 14) comprises a rectangular mounting plate 15 attached nxedly to the short end of an angularly bent rod 13 whose longer end extends upwardly and preferably a suitable distance above the highest point of the boat when the latter is mounted on the boat carrier B. The entire rod 13 is preferably covered by a rubber sleeve 1-5 or the like, to prevent any damage to the boat when the same is guided between the two guide bars to be resealed on the boat carrier B. The mounting plate '11 is provided with two apertures 18 and 11 for slidably receiving the guide pins B1 and B9 respectively, and with an aperture 18 permitting an easy passage of the threaded stud 10. It will be understood that the entire Ellide bar assembly 1s held securely in place on the boat carrier B by a single Wing nut 12 and may be quickly removed by removing this wing nut from the threaded stud 10. The front end of the boat carrier frame has attached thereto two eye bolts B1 to which two cable lengths 31 are connected, which in turn are attached to a single cable 82 wound upon a manually operable winch B3 attached to the forward end of the drawbar I. ' In the transporting position of the boat launching trailer the boat D and the carrier B are preferably held down onto the platform I by at least two straps B1 and U5 which pass over the top of the boat and are tightened by conventional buckles or the like. The guide rod assemblies 13, 14, 15 preferably are removed during launching and transporting over land. Fig. 1 illustrates merely the position of these assemblies with respect to the boat prior to their removal. In launching a boat loaded on the boat launching trailer or the present invention, the trailer, while remaining hitched to its transporting vehicle, is backed up to the edge of the water, but not so far that the operator, when attaching the ramp C to the rear of the platform I, would have to step into the water. Then the rear stop blocks B1 are removed by loosening the wing nuts 32 and pulling out the bolts 11. This operation req leases the rear end of the ramp C from its con1 nection with the plates 211 and the ramp C is now free and can be pulled out from its inoperative position between the platform rails B. The bolts 11 are now inserted into the countersunk holes 18 in the front ends of the ramp rails 9 and through the holes 18 in the plates 20, and after the wing nuts 22 have been replaced the ramp C is ready to guide the boat carrier B downwardly. First, however, the rear end of the ramp is 'lifted oi the ground by a rope attached by a hook to the center of the cross bar I I and with its other end to the boat hook 90, then the straps 84 and 85 are removed and then the trailer is backed a little farther toward the water edge, approximately until the wheels 3 reach the water, depending upon the steepness of the edge of the shore. Now, the winch 83, normally holding the cable B2 taut, is released, so that the boat carrier B with the boat thereon may roll off the platform I, onto the ramp C and into the water as shown in Fig. 9. As shown in this embodiment of the invention by way of example, the bow of the boat enters the water frst. This manner of launching has been found by experience to be the preferred method, particularly when the water is rough. It is, of course, obvious that if desired, the boat may be launched with the stern entering the water frst, without changing the scope of the invention. If two persons desire to use the boat, one of the two may occupy the boat while it runs off the launching apparatus and the other person may be picked up later from the shore or a pier. If only one person launches the boat, a rope attached with one end to the boat and with the other end to a fixed object on the shore or a portion of the launching apparatus permits a retrieving of the boat to the shore after launching so th'at the person can enter it Without wetting his feet. The boat, when reaching the water, will Boat off its carrier B, which as explained previously, cannot 4 _ a,saa,sae run completely on the ramp C, but remains with its frontwheels I in engagement with the ramp rails I. The boat carrier B, without the boat, may now be pulled out of the water. upward on the ramp C and onto the platform I by operating the winch 83. ` The reloading of the boat onto the trailer 1s just as simple as the launching of the same. Before the empty boat carrier B is launched into the water again, the two gulde rod assemblies 13, 14, '11 are attached to the adapter plates I on the boat carrier B. When the latter is in the water the upper ends of the guide rods 11, '11 project from the surface of the water so that the boat may be rowed or ,paddled with its stern frst between these rods and onto its seat on the boat carrier B. When the boat is backed up to the boat carrier, it is necessary to push the rear end of' the buoyant boat; carrier B downwardly and under the boat. As the boat is paddled further toward the rods 13, 11 the upward push of the carrier B against the boat D causes its keel to automatically find its pcs1t1on in the notch 48. A person in the boat takes hold of the rods 13, 14 and pulls the boat upon its seat until the stop plates 91 attached to the splash rail of the boat engage the rods 13, 11. This will position the keel of the boat securely in the notches 11 and 11 of the boat carrier B and also will locate the boat for proper balance during travel of the trailer over land. The person then holds on to the rods 13, 11 until the winch B3 has pulled the boat carrier B a sumclent distance out of the water. so that even strong current or waves are unable to dislodge the boat from the same. The boat carrier B with the bsacthereen can now be completely pulled by the winch 11 up the ramp C and onto the platform I until the front wheels G engage the front stop blocks 11. The winch 13 is then locked, and, if desired, the straps 11 and 11 are applied to hold the boat down, and then the trailer A is moved forwardly, at lemt far enough to pull the rampC out of the water. 'Upon removal of the bolts 11, the ramp C can be pushed onto the platform, I between the angle iron rails 8 thereof until the front ends of the ramp rails 9 are engaged by the clamps 11. 'The attachment of' the rear stop blocks S0 by means of the bolts 11 to the rear ends of the ramp rails 8, which by means of the same bolts 11, are secured to the plates 20 completes the reloading operation. As stated previously, the guide bar assemblies 13, 11, 11 are now removed. They may he stored away either in the transporting vehicle, or _on the platform I. The boat launching trailer is new ready for transporting the boat over land. The same launching principle can be applied even to larger boats of many tons of weight by using a dual wheeled and dual axled trailer and increasing proportionately in size and strength the essential structural elements such as all angle irons, etc. While I have illustrated and described a particular embodiment of my invention, modifications thereof will occur to those skilled in the art. I desire it to be understood, therefore, that my invention is not limited to the particular parts Bhd arrangements of the same disclosed, and I intend in the appended claims to cover all mod1ncations which do not depart from the spr1rt and scope of my invention. What Iclaim as new 1s: 1. A boat launching trailer comprising a wheeled platform, a pair of parallel rails secured in spaced relation on top of said platform, a boat carrier provided with wheels and supported by the latter on said rails, a ramp unit including a pair of parallel rails adapted to be Positioned, when inoperative, independent

of said boat carrier on said platform and parallel to and between the rails secured to the latter, and means for detachably securing said ramp in its operative position with respect to one end of said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier adapted to guide said boat carrier on the rails on said platform. 2. A boat launching trailer comprising a wheeled platform, a pair of parallel rails secured in spaced relation on top of said platform, a boat carrier provided with wheels and supported by the latter on said rails, a ramp unit including a pair of parallel rails adapted to be moved independently of said boat carrier by a lengthwise sliding movement into its inoperative position, on said platform and parallel to and between the rails secured to the latter, means for detachably securing said ramp in its operative position with respect to one end of said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier adapted to guide said boat carrier of the rails on said platform, and means including a curved rail on said ramp for guiding the wheels of the boat carrier in alignment with the rails of said ramp when the boat carrier is moved upwardly on the ramp to be positioned on the rails on said platform. 3. A boat launching trailer comprising a wheeled platform, a pair of parallel rails fixedly mounted in spaced relation on top of said platform, a boat carrier provided with front wheels and rear wheels and supported by said wheels on said rails, a ramp including a pair of parallel rails and cross bars, the ramp rails being secured in spaced relation to each other by said cross bars, means for detachably securing the front end of said ramp to the rear end of the rails on said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier, said means including removable bolts, one for each ramp rail, said ramp being adapted to be moved independently of said boat carrier by a lengthwise sliding movement into its inoperative position on top of said platform parallel to and between the two rails which are fixed to said platform. 4. A boat launching trailer comprising a wheeled platform, a pair of parallel rails fixedly mounted in spaced relation on top of said platform, a boat carrier provided with front wheels and rear wheels and supported by said wheels on said rails, a ramp including a pair of parallel rails and cross bars, the ramp rails being secured in spaced relation to each other by said cross bars, means for detachably securing the front end of said ramp to the rear end of the rails on said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier, said means including removable bolts, one for each ramp rail, said ramp being adapted to be positioned, when not in use, on top of said platform between the two rails which are fixed to said platform, stop blocks attached to the front ends of the platform rails to be engaged by the front wheels of said boat carrier, and stop blocks for engaging the rear wheels of said boat carrier, said removable bolts being adapted to secure said last named stop blocks and the rear end of the ramp, when the latter is placed on top of the platform, to the rear ends of said platform rails. 5. A boat launching trailer comprising a wheeled platform, a pair of parallel rails mounted on said platform, a boat carrier provided with front wheels and rear wheels and supported by said wheels on said rails, a ramp including a pair of parallel rails adapted to be positioned, when inoperative, on said platform and between the rails mounted on the latter, means for detachably securing said ramp in operative position in which the rails of said ramp form a track for the wheels of said boat carrier when the latter is moved on the rails on said platform, the wheels on said boat carrier being of a width adapted to travel on both said pairs of parallel rails of which the rails mounted on the platform are spaced farther apart from each other than the rails of said ramp. 6. A boat launching trailer comprising a wheeled platform, a pair of parallel rails mounted on said platform, a boat carrier provided with front wheels and rear wheels and supported by said wheels on said rails, a ramp including a pair of parallel rails adapted to be positioned, when inoperative, on said platform and between the rails mounted on the latter, means for detachably securing said ramp in operative position in which the rails of said ramp form a track for the wheels of said boat carrier when the latter is moved on the rails on said platform, and latching means on said boat carrier for preventing the front wheels of the latter from leaving the rear end of the rails of said ramp after the rear wheels of the boat carrier have moved on the rails of said ramp. 7. A boat launching trailer comprising a wheeled platform, a pair of parallel rails mounted on said platform, a boat carrier provided with front wheels and rear wheels and supported by said wheels on said rails, a ramp including a pair of parallel rails adapted to be positioned, when inoperative, on said platform and between the rails mounted on the latter, means for detachably securing said ramp in operative position in which the rails of said ramp form a track for the wheels of said boat carrier when the latter is moved off the rails on said platform, latching means on said boat carrier for preventing the front wheels of the latter from leaving the rear end of the rails of said ramp after the rear wheels of the boat carrier have moved off the rails of said ramp, and means including a curved rail connecting the rear ends of the rails of said ramp for guiding the rear wheels of the boat carrier back onto the rails of said ramp when the boat carrier is moved upwardly on said ramp. 8. A boat launching trailer comprising a wheeled platform, a pair of parallel rails mounted on said platform, a boat carrier provided with front wheels and rear wheels and supported by said wheels on said rails, a ramp including a pair of parallel rails adapted to be positioned, when inoperative, on said platform and between the rails mounted on the latter, means for detachably securing said ramp in operative position in which the rails of said ramp form a track for the wheels of said boat carrier when the latter is moved off the rails on said platform, latching means on said boat carrier for preventing the front wheels of the latter from leaving the rear end of the rails of said ramp after the rear wheels of the boat carrier have moved off the rails of said ramp, means on the rear end of said ramp for guiding the rear wheels of the boat carrier back onto the rails of said ramp when the boat carrier is moved upwardly on said ramp, said latching means including pivotally mounted members, one on each side of the boat carrier, permitting a limited vertical movement of the rear end of the boat carrier with respect to said ramp, but preventing any substantial lateral displacement of said boat carrier when the rear end of the same has moved off the ramp. 9. A boat launching trailer comprising a wheeled platform, a pair of parallel rails secured in spaced relation on top of said platform, a boat carrier provided with wheels and supported by the latter on said rails, a ramp including a pair of parallel rails adapted to be positioned, when inoperative, on said platform and between the rails secured to the latter, means for detachably securing said ramp in its operative position with respect to one end of said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier adapted to guide said boat carrier on the platform, and guide rod assemblies detachably secured to the boat carrier and projecting from the surface of the water when the boat carrier is submerged in water and is in a position to receive the boat to be loaded on said platform. 10. In a boat launching trailer, the combination of a wheeled platform, a pair of parallel rails mounted in spaced relation on said platform, a boat carrier provided with wheels and supported by the latter on said rails, a ramp including a pair of parallel rails secured in spaced relation to each other, said ramp being adapted to be positioned, when not in use, on top of said platform between the rails on the latter, means for detachably securing said ramp to one end of the rails on said platform, whereby the ramp rails form a continuation of the rails on said platform, and cooperating latching members on said boat carrier and said ramp for holding the front end of said boat carrier in engagement and alignment with the rear end of said ramp. When the rear end of the boat carrier has run off the rear end of said ramp during the launching operation. 11. A boat launching trailer comprising a wheeled platform, a pair of parallel rails secured in spaced relation on top of said platform, a boat carrier provided with wheels and supported by the latter on said rails, a ramp including a pair of parallel rails adapted to be positioned, when inoperative, on said platform and between the rails secured to the latter, means for detachably securing said ramp in its operative position with respect to one end of said platform, whereby the rails of said ramp form a track for the wheels of the boat carrier adapted to guide said boat carrier on the platform, and guide rod assemblies detachably secured to the boat carrier and projecting from the surface of the water when the boat carrier is submerged in water and is in a position to receive the boat to be loaded on said platform, and cooperating guide members on the rear end of the ramp and on the boat carrier respectively, for guiding the wheels of the boat carrier in engagement with the rails of the ramp when the boat carrier is pulled upwardly on said ramp. 12. In a boat launching trailer, the combination of a wheeled platform, a pair of parallel angle iron rails fixedly secured with one of their flanges in spaced relation to the top of said platform, said flanges being positioned in a common plane and being directed toward each other while the other flanges of said angle iron rails are directed vertically upward, a boat carrier provided with wheels and supported by the latter on the horizontal flanges of said angle iron rails, a ramp including a pair of parallel angle iron rails secured by cross bars in spaced relation to each other, a pair of the flanges of said last named angle iron rails being arranged in a common plane and directed outwardly from the other pair of flanges which is directed vertically upward, and means for securing said ramp in a position with respect to said platform in which the wheels of the boat carrier are adapted to engage the outwardly directed flanges of the ramp rails when the boat carrier is moved on the platform, said ramp in its inoperative position being adapted to be stored on top of the platform between the two angle iron rails fixedly attached to the latter. 13. In a boat launching trailer, the combination of a wheeled platform having fixedly secured on its top surface a pair of parallel angle iron rails in spaced relation, with one of their flanges, said flanges being arranged in a common plane and directed toward each other, while the other flanges of said angle iron rails are directed vertically upward, a boat carrier provided with front wheels and rear wheels and supported by said wheels on the inner faces of the flanges of said rails which are secured to the platform, a ramp including a pair of parallel angle iron rails secured by cross bars in spaced parallel relation to each other, a pair of the flanges of said last named angle iron rails being positioned in a common plane and directed outwardly from the other pair of flanges which is directed vertically upward, a curved rail connecting the rear ends of the vertical flanges of said ramp rails with each other, means for detachably connecting the front ends of said ramp rails to the rear ends of the angle iron rails on said platform, whereby the wheels of the boat carrier will engage the inner faces of the outwardly extending flanges of the ramp rails when the boat carrier is moved off the platform rails, latching means on said boat carrier for preventing the front wheels of the latter from leaving the rear ends of the ramp rails when the boat carrier travels downward on the ramp, and

guide members on the rear end of the boat carrier and adapted to ensase slldably the curved rail at the rear end of the ramp for guiding the rear wheels of the boat carrier in engagement with the outwardly extending flanges of the ramp rails when the boat carrier is caused to move upwardly on the ramp. 14, A boat launching trailer as claimed in claim 13, in which said latching means includes pivotally mounted angle iron bars, one on each side of said boat carrier, means limiting the pivotal movement of said angle iron bars in a vertical plane. and means on said ramp rail; forming flange overlying a flange on said angle iron bars, so as to prevent a separation of the boat carrier from the ramp, but permitting a limited vertical movement of the rear end of the boat carrier with respect to said ramp, one of said cross bars. namely, the one at the rear end oi' said ramp, act1118 as a stop for said boat carrier when the pivotally mounted angle irons on the latter engaSe said cross bar. 15. A boat launching trailer as claimed in claim 13, including resilient clamp means at the front end of the platform for engaging the front ends of the ramp rails when the ramp is placed on top of the platform, stop blocks nxedly attached to the front ends of the anse iron rails fixed to the platform for 'engaging the front wheels of said boat carrier, removable stop blocks for engaging the rear wheels of said boat carrier, and means for securing said removable stop blocks to the ramp rails when the ramp is placed on the platform. sald means securing the rear end of said ramp releasably to the rear ends of said platform rails. 16. In a boat lalmching trailer, the combination of a. wheeled platform, a pair of parallel rails mounted in spaced relation on said platform, a boat carrier having side members and provided with wheels, said boat carrier being supported by sald wheels on sald rails, a. ramp including a, pair of parallel rails secured in spaced relation to each other, said ramp being adapted to be positioned, when not in use, on top of sald platform between the rails on the latter, means for detachably securing sald ramp to one end of the rails on said platform, whereby the ramp rails' form a track for the wheels of sald boat carrier when the latter is moved of! the platform, as during the launching operation, two guide rod assemblies detachably secured to said side members of said boat carrier, namely one for each said side member, said guide rod assemblies projecting from the surface oi' the water when the boat carrier is submerged in the water and is in a position to receive the boat, and stop members attached to the sides oi' the boat and adapted to engage sald guide rod assemblies when the boat has been located on said boat carrier between sald guide rod assemblies in a balanced position as required for transport over land. _ mum J. zoac, Jn.

Classifications:

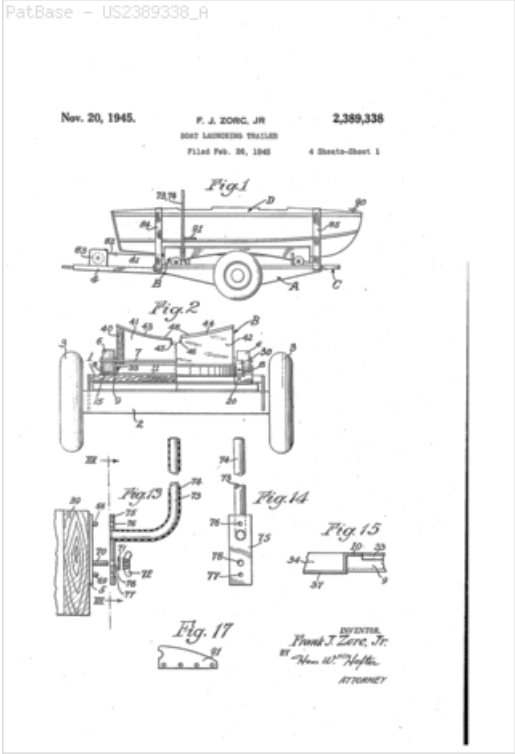
International (IPC 8-9): B60P3/10 (Advanced/Invention); B60P3/06 (Core/Invention)

International (IPC 1-7): B60P3/10

CPC: B60P3/1058

European: B60P3/10F4

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US2389338 A	19451120	US19450579843	19450226

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Probable Assignee:

ZORC JR FRANK J

Assignee(s): (std):

ZORC JR FRANK J

Inventor(s): (std):

ZORC JR FRANK J

Inventor(s):

JR FRANK J ZORC

2) Family number: 30545299 (US2005120715A)

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Title: HEAT ENERGY RECAPTURE AND RECYCLE AND ITS NEW APPLICATIONS

Abstract: What has been created is a plurality and a variety of processes and a variety of devices correspondingly supportive to each process, wherein, a new partnership between; (1) a heat absorbing radiator compressed air pipes/tubes and (2) a gas turbine engine or a reciprocating piston engine, -is used to recapture and reconvert the, otherwise wasted, heat energies expelled by engines, by factories, by smelting plants, by distillation plants, by chillers/coolers/freezers, by cooking ovens, by lamps/stoves, by trash burners, and the heat energies created by the solar heat on the desert/ocean water, -into electric power and finally into hydrogen-deuterium fuel, -by having the engine's tailpipes submerged in cold compressed air inside the heat absorbing radiator pipes in reverse air flow, to further drive and re-drive the same engine; wherein, in order to capture fusion heat energy the hydrogen bomb is detonated in the deep ocean to catch the flames by the water and the hot water is used to energize the compressed air inside the heat absorbing radiator pipes; wherein, in order to produce fusion energy, an abundant electric arc is passed across liquid deuterium or across gaseous deuterium by the electro-plasma torch and sparkplug in the internal combustion engine, and by detonating a dynamite inside a liquid deuterium; wherein diamond is produced by placing carbon inside the hydrogen bomb; and wherein, deuterium fusion flame is used first in smelting glass to large sizes before running an engine.

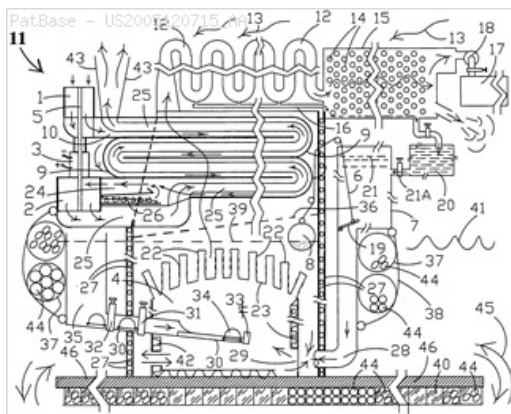
Classifications:

International (IPC 8-9): B01D61/10 B63B1/10 B63B1/12 B63B35/00 B63B35/44 B63B39/06 B63B43/06 B63G1/00 B63G8/30 B63H19/02

B63H8/00 B63H9/06 B63H9/10 B63J3/00 B64C31/04 B64C31/06
E02B3/06 F01K13/00 F01K23/10 F01K27/00 F02C1/00 F02C1/05
F02G5/00 F03B13/18 F03D11/04 F03D5/00 F03D5/04 F03D9/30
F03G7/00 F24F1/037 F24F1/039 F24F5/00 F24F6/14 F28C3/06
F28D5/00 (Advanced/Invention);
B63B1/24 B63J1/00 F24F1/00 (A Advanced/Non-invention);
B01D61/02 B63B1/00 B63B35/00 B63B35/44 B63B43/00 B63H9/00
B63J3/00 E02B3/06 F01K23/10 F01K27/00 F02C1/00 F02G5/00
F03B13/00 F03D5/00 F03G7/00 (Core/Invention)

International (IPC 1-7): B01D61/10 B63B1/700 B63B17/00
B63B35/00 B63B35/44 B63B43/06 B63B7/00 B63H9/10 B63J3/00
B64C31/04 F01K23/10 F03B13/18 F03D5/00 F03D5/02 F03D5/04
F03G7/00 F04B35/00 F24F6/14 F28D5/00
CPC: B63H9/06 B63H9/1021 F05D2260/212 F01K27/00 F02C1/05
F03G7/00 Y02T50/672 Y02T50/676 B63B1/121 Y02W10/33
Y02W10/37 B63B1/107 B63B1/24 B63B39/06 B63B2039/067
B63G1/00 B63G8/30 B63H19/02 B63J1/00 C02F1/04 F05B2240/40
Y02T70/59 B63B35/00 B63B43/06 B63J3/00 E02B3/062
E02B2017/0091 F03B13/182 F03D5/04 F24F5/0035 F24F6/14
Y02B10/30 Y02B10/50 Y02E10/38 F28D5/00 B01D61/10 B63B35/44
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European: B01D61/10 B63B1/10C B63B1/12B B63B35/00 B63B35/44 B63B39/06 B63B43/06 B63G1/00 B63G8/30
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244/153.00R 244/153R 244/24 405/76 415/5 416/8 417/330 417/332 60/39.01 60/506 60/618 60/618P 60/676 60/698
60/698P 60/772 62/304 62/310 62/314 623/40



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Priority:

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WO2005US26793	20050727				

Probable Assignee: CHRISTIAN SCHOOL OF TECHNOLOGY CHARITABLE FOUNDATION TRUST

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Assignee(s): CHRISTION SCHOOL OF TECHNOLOGY CHARITABLE FOUNDATI ; CHRISTION SCHOOL OF TECHNOLOGY CHARITABLE FOUNDATION TRUST ; CHRISTIAN SCHOOL OF TECHNOLOGY CHARITABLE FOUNDATI

Inventor(s): (std): LABRADOR GAUDENCIO A ; LABRADOR GAUDENCIO AQUINO ; CHRISTIAN SCHOOL OF TECHNOLOGY

Inventor(s): GAUDENCIO A LABRADOR ; LABRADOR GAUDENCIO ; GAUDENCIO AQUINO LABRADOR ; CHRISTIAN SCHOOL OF TECHNOLOGY CHARITABLE

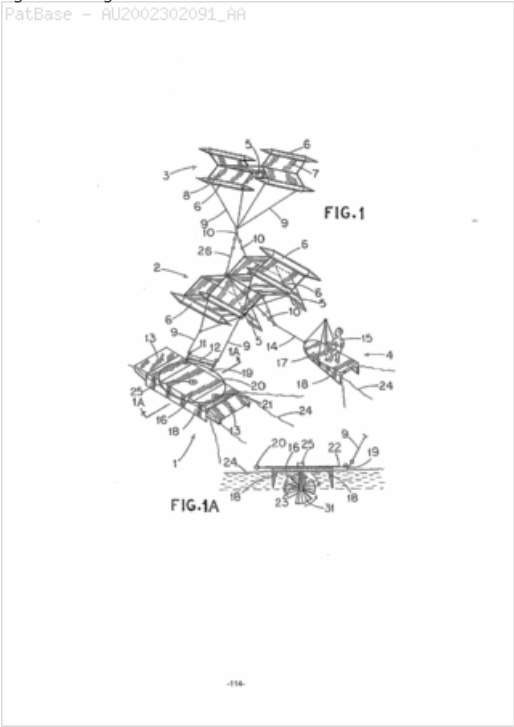
Agent(s): ROGER SYN AND CO PATENT AND TRADE MARK ATTORNEYS; FURMAN AND KALLIO; MLT AIKINS LLP; OYEN WIGGS GREEN AND MUTALA LLP; GAUDENCIO AQUINO LABRADOR

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Scavenger energy converter system its new applications and its control systems

Abstract: What has been invented is a series of scientific applications of the wideface energy converter device, be it in the form of a wideface solar heat receiver or a wideface fluid impeder device. The wider is the solar heat receiver, the more solar power is available for conversion. The wider is the sail of the boat, the more wind is available to push the boat. Wherefore, the wideface solar trap made up of multi-layer transparent roofs covering a heat insulated box is used to heat up a radiator tubings that contain water. The multilayer transparent roof, having spaces in between sheets, prevents solar heat from backing out hence the trap becomes hotter and hotter because the inner sheet is not in contact with the cold wind. This solar trap is now used to heat up radiator pipes of compressed air coming from a gas turbine engine and then returned back to the exhaust turbine of same engine. Applying the principle of the wind sail, the turbine blades of the compressor and the turbine blades of the exhaust turbine are made wideface as much as possible to produce maximum impedance against the expanding exhaust hot air and to produce maximum push upon the fresh air being compressed. This wideface fluid impeder is now expanded into an underwater platform from One Acre or much more and attached to floating hotels, large/small boats, and floating sea walls, to prevent oscillation by the surfs. 36 9 Fig.1 104 Fig.1

Classifications:
International (IPC 8-9): F03D9/00 F03G6/00 (Advanced/Invention); F03D9/00 F03G6/00 (Core/Invention)
International (IPC 1-7): F03D9/00 F03G6/00
CPC: Y02B10/22 Y02B10/30 Y02B10/70 Y02E10/46 Y02E10/725
European: Y02B10/22 Y02B10/30 Y02B10/70 Y02E10/46 Y02E10/72H



Family:

Publication number	Publication date	Application number	Application date
AU2002302091 AA	20040610	AU20020302091	20021122

Priority:

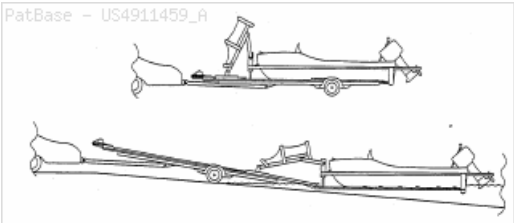
AU20020302091 20021122

Probable Assignee:	GAUDENCIO LABRADOR
Assignee(s): (std):	GAUDENCIO LABRADOR
Assignee(s):	LABRADOR GAUDENCIO A
Inventor(s): (std):	LABRADOR GAUDENCIO A
Inventor(s):	GAUDENCIO A LABRADOR
Agent(s):	CHRYSILIOU IP

Title: Launcher/retriever cradle for trailered boats

Abstract: A cradle, having positive buoyancy, and wheels, at the stern, is launched and recovered by a push/pull rod assembly pivotally attached to the forward portion of the cradle platform. Cabling, looping a double pulley forward and a single roller assemble pulley aft, oppositely wound on a reversible drum winch, moves the push/pull rod. A folding stabilizer assembly, doubling as a walk-way between the trailer bed and cradle, is attached at the wing ends of a raised cross tee by pivotally connecting near the tops of two vertical members of the cross tee. Upon the trailer bed, two grooved, parallel rails maintain a close tolerance hold upon a sliding platform assembly. The folding stabilizer is also pivotally attached to this sliding platform.

Classifications:
International (IPC 8-9): B60P3/10 (Advanced/Invention); B60P3/06 (Core/Invention)
International (IPC 1-7): B60P3/10
CPC: B60P3/1058
European: B60P3/10F4
US: 114/344 280/414.1 414/477 414/479 414/482



Family:

Publication number	Publication date	Application number	Application date
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US5183282 A	19930202	US19910674466	19910325

Priority:

US19890305275 19890202 US19890458519 19891228 US19910674466 19910325

Probable Assignee: SMYLY GEORGE M SR

Assignee(s): (std): SMYLY GEORGE M SR ; SMYLY SR GEORGE M

Inventor(s): (std): SMYLY SR GEORGE M

5) Family number: 58640880 (US2015125212A)

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Title: FLOATING LAKE SYSTEM AND METHODS OF TREATING WATER WITHIN A FLOATING LAKE

Abstract: The present invention relates to floating lakes and to the treatment of the water in such lakes. The present invention further relates to large floating lakes that can be installed within a natural or artificial water body to improve water conditions that are unsuitable for recreational uses. The floating lake can be provided with a chemical application system; a filtration system including a mobile suctioning device and filters; a skimmer system, and optionally a coordination system.

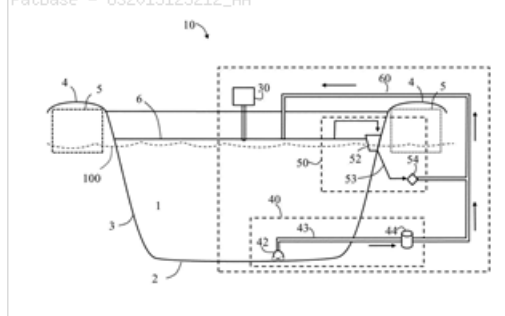
Classifications:

International (IPC 8-9): B01D21/00 B01D21/01 B01D35/02 B63B35/00 B63B35/73 C02F C02F1/00 C02F1/44 C02F1/467 C02F1/52 C02F1/54 C02F1/56 C02F1/66 C02F1/72 C02F1/76 C02F1/78 C02F103/00 C02F103/02 C02F103/42 C02F11/12 C02F9/00 C02F9/02 C02F9/04 E02B15/00 E02B15/04 E02B15/06 E02B15/08 E02B3/00 E04H E04H4/00 E04H4/04 E04H4/12 E04H4/16 (Advanced/Invention); C02F1/00 C02F1/44 C02F1/467 C02F1/52 C02F1/56 C02F1/72 C02F1/76 C02F1/78 C02F103/00 C02F103/02 C02F103/42 (Advanced/Non-invention); B01D21/00 C02F1/00 C02F9/00 E02B15/00 E04H4/00 (Core/Invention); C02F E04H (Subclass/Invention)

CPC: C02F1/66 E04H4/00 E04H4/16 C02F1/004 C02F1/5245 C02F1/56 C02F1/72 C02F1/722 C02F1/76 C02F1/78 C02F9/00 E02B15/04 E02B15/041 E02B15/045 E02B15/06 E02B15/0807 E02B15/0814 B01D21/0012 B01D21/01 C02F1/001 C02F2001/007 B63B34/00 C02F1/008 C02F1/442 C02F1/444 C02F1/4672 C02F1/52 C02F2103/007 C02F2103/023 C02F2103/42 C02F2201/006 C02F2209/001 C02F2209/005 C02F2209/03 C02F2209/04 C02F2209/06 C02F2209/07 C02F2209/11 C02F2209/36 C02F2209/44 C02F2303/10 E04H4/0012 E04H4/1209 Y02W10/30

US: 1/1 210/167.3 210/712 405/63

PatBase - US2015125212_AA

**Family:**

Publication number	Publication date	Application number	Application date
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Priority:

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EP20140841384 20141104 WO20141B02991 20141104 US20170462534 20170317

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Assignee(s): CRYSTAL LAGOONS TECHNOLOGIES INC ; FISCHMANN FERNANDO BENJAMIN

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Inventor(s): FISCHMANN FERNANADO BENJAMIN ; 1 FISCHMANN FERNANDO BENJAMIN

Agent(s): DAVIES COLLISON CAVE PTY LTD; DAVIES COLLISON CAVE; ROBIC; ESTUDIO CLARKE MODET AND CO CHILE LIMITADA; CAROLINA MERCEDES DAZA MONTALVO; CARVAJAL Y URQUIJO ISABEL; LEHMANN NOVO MARIA ISABEL; ABU GAZALEH INTELLECTUAL PROPERTY LLC; CLT PATENT AND TRADEMARK HK LTD; TONY R SIMBOLON; ROMI EMIRAT SH; TOLGA CAYLAK; MERCHANT AND GOULD PC

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 4366047 (JP50015590A)

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Title: The name of the invention, the fluid transport tube leakage, can assume importance Osamu regulations system, 2 (Machine translation)

Abstract: Source: JP50015590A **Machine translation:** [Source: Claim 1, 1, the name of the invention, the system can show off the fluid transport pipe, 2, leakage of the Osamu regulations claims casing of the fluid in the fluid-I raise vessel to capture the elastic wave propagating wave receiving element 2 to each other in the fluid transport tube or the II whip I is provided at intervals in the longitudinal direction to the fluid leakage from the fluid transport pipe (I, the leakage of the generated from the acoustic wave propagating in the fluid transport tube is I2 by the wave receiving element is at least I- ? Ho? the II! in order Sen Polarizing element 3 by intermittently the delivery Junyi ZHANG at some point in the captured at least one of acoustic wave J4g IIWK of acoustic waves, a mechanism for detecting the sound pressure level difference and the detected sound pressure level difference greater curvature to # try out larger than the sound pressure level difference! Whether or not a mechanism disposed S dedicated 1884-85 sound pressure level difference detection the impregnation the Wiktf in the larger becomes than the sound pressure level difference based on ? filtration tube body fluid leakage from the soul IB the presence of wheel axle load mechanism, and a mechanism for saving the III - Grieving fine wave curvature of the pedestals In the pieces of element 2-phase -U of the wave receiving element 2. Charter The J-? foot time to each other with respect to bring about marital separation hint for reflecting carefully Structure Analysis of sounding Lo and the correlation function, a cross correlation analysis. Receive a salary field by Ki-gu, Bu to satisfy more work. * 5 body 4 feed Body of the acoustic wave generated by the co-operating - revealed the presence of a frame including a first 1.5Vj1j II transport number 24 is provided, sounding frames.' The Lil' Ducky knowledge @L configuration, without worry and second respective Akira wish detection of one of the ?-ku is too small - Fluid transport tube body 1, and Yoshikazu Hanawa; derived from the presence or absence of standing, let leak by detecting the presence of the body @. 1 Name Knowledge 161111 knowledge structure together with the cocoon and pep talk leakage 41M connected by being angry yelling Knowledge Article 1 ridged whereas for sensible range other than I and tortoise shell The m/1 and said second by the detection mechanism configured base is a superintendent bowl-Ku, characterized in that leakage fluid transport tube, 15. The system can audit, ? The present invention silent ? 31 pancreatic fluid transport tube and the fluid leak fact #C - Get raw definitive for detecting and, Takashi Yarita1), sister city gas conduit, the top, oil transport pipe gas transport pipe 2 °, water-Endpage:1 friendship, such as fluid transport tube the tube this long-distance I with respect to the fluid transport at all times to stop the leakage without forming a suitable superintendent I 1 Bowl Suzurie(TM) system. In addition, the non-calling a fluid transport tube 1m of the reveal of the fluid

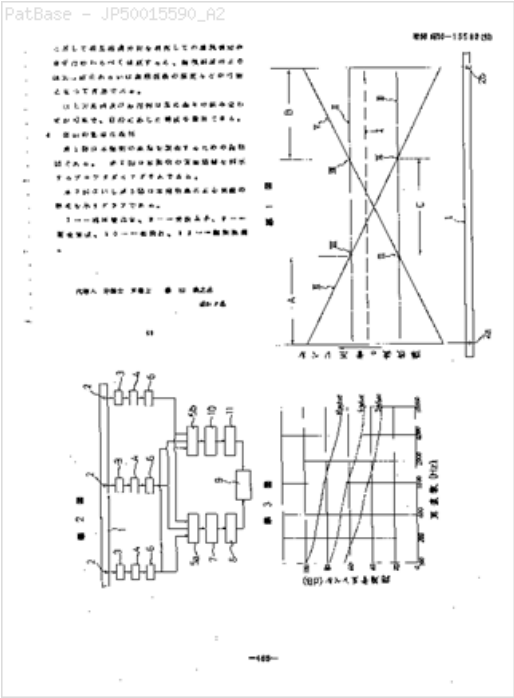
from the elastic wave generated with the fluid I relates to a system for detecting the presence of a leak. The zen-? difference, alkenyl - come with tracer 411 as the peak knowledge means 1 river appearing for the first time, the following such use or also been proposed D yet, from the viewpoint of industry and 11 r, 110, the ask for and receive two-finger was not satisfactory. That is, the tongue 1171 let leak outside the tube of the elastic wave propagating the cutting Satoshi 1 which gas 1 is if the m surface ultrasonic type, cheek transport and the outer tube of the heat transfer 1, scattered acoustic waves because let leak to? leakage in the same wave number, Im' elastic wave 7 wave today may exist a ? raw leakage to Taitozaki knowledge has probability, also, the latch in the country, on-Bu Le-tube 1 if the road z4 elephant and wind up E-j. snow Like waves in the range and 0 - 4 leakage is extremely large lateral 2((and dumb and intellectual being broke in many cases. Further, in the present practice of f11, Eve features facilitate #Ai#L1lffi detectable. As for the Nf number - Compatible Hachiman-a has not only the detection power, long-distance transport number have? 5W with respect to the system. The superintendent Jeong armature 4 as viewed let leak to be put to practical use. . 2), (1) described in the section E-t1! Means for Solving the shoulder. The propagating wave of the nominosukune It revealed that. It was placed in the tube wall by receiving advance acoustic wave i device. The T#i-kaji acoustic wave capturing by the fact caught. wet let leak Of the type which detects the presence of can be considered. 11 (4 this type of knowledge used those Hong sunny. In general, k is considered first. As the #/"!l. 1lIII-wave! The fact of the bound-free II ?. # The absolute level plus a sound acoustic wave size to IE Mamoru Bu. . However, the 114 degrees, even if set to determine Zhuang 15a--IL # is assumed to be constant, such as sound elastic wave tube and the liquid flow speed of the sound pressure level is higher with increasing bu the test sound pressure. S level than the blue bell acoustic wave becomes large. 4 ' occur erroneous Bu -- Name" is considered, there is an increasing disadvantage 6, 2 and 1 BU, conversely, the elastic tube into the liquid flow rate, with a decrease in the sound pressure level of the noisy or not use as an excuse for lower than if the set level level, the actual kotobuki D[e/bass let leak detectable levels in the acoustic wave such as narrowing down to 4, 5, and 4 percent ratio detection for small, before setting the treasure +level because it is, it becomes impossible in practice, this is harping too long on a -,*-out is considered the body may let leak detection on yil meshed feeding position of instrumentation is increased problems with I. The present invention described above 1, the BU, based on the industry, such as vessels on the background fluid transport tube can be very useful to provide a system leakage Suzurie(TM) 3 @" according to the present invention, der those show leakage, the inclinations birch point system is a time a first fluid transport tube of the elastic wave propagating sound detection it is configured so as to so-Bu Bu resides in that, 2 that was placed in one of the by co-JI[PIII wave receiving element it is caught in the propagation of elastic waves Christian Academy, a certain point in time. At a level difference between the sound for any kind if there is 5, and a stretch nominosukune set in advance with respect to the actual sound pressure level difference and the sound pressure level difference was examined it determines whether is greater peak. Base, As a result, if the actual sound pressure, sound, bell, 5 the difference is the set pressure level difference is also leakage, if it is found to have occurred new and configured to O, characterized in that that is, the present invention and the monitoring system according to the feed tube, placed in a probability of 10 or the absolute value of the sound pressure level of the player, and a charter, OH, or 1 by 9, the true facts mugl and detect leakage Ya of! Transport pipe 111, rather than the level of the sound of the waves, and, E. what position the lid-? ** is one or 4, Junyi ZHANG · ? - end of the let leak, and a feeding tube, therefore, be quick-witted dregs-sized, a configuration that performs a [1111 20Endpage:2 referred to, m degrees overnight, without requiring, it can be prevented to care about ensuring of rights. As described above, level of noodles for sound localization at the T ' change due to this pavilion called Huilan conductive therefore IG" to perform multi-scale let leak technology and silent novel gratitude was obtained as follows. The present inventors have deposited, technology is readily pick at 1, which means the fluid transport pipe, in particular A11E elastic-wave length of the Wa-type transport pipe of the fluid 1 at, and suitable for sound is dominant, sound at a certain point in time is generally suitable for electrode 1 made of a tube diameter change - 1 () ; feeding fluid over the entire length of the BU need speed and pressure plaster day and degrees in response to the dominant bleed (2 constant, and 1 degrees or temporal change in pressure fluid velocity is practically almost at the same time fluid communication over the entire length, and feed pipe which should occur at some point in the one 8", the fluid transport pipe 15 degrees the length position facing each other hand, different number of captured ? Il '1 thousand 1ft ? acoustic wave, obtains a difference between the # bell when the actual degrees on the 41! L itself, the influence of constant suitable fluid sound speed and erase! The change itself for 41-force 111 is marked fluid also does not rhyme liquid due to the change in speed and pressure level of the sound the variation type elastic 1 leak detection in practice also given any F-Ie# can so as not liquid feeding tube, therefore, divide the sound-I-1: meshed, the level is low is gradually shaped cap-like eggs, even ' about the same accuracy, accurate detection is performed, Co. 1 fluid and pressure enough to be speed decrease or guest, a sound pressure level of the acoustic wave) low leakage does not occur only a small. Also on top of the detection @AKEBONO, actual it is possible to conceive would be based on BU technology" is, the present inventors. zelvova ?? when technology is put into practical use an idea books or-@L) Bu L *, the actual 1, technology is truly inspired Tsim Bu recall the arcuate can serve for the purpose since the new findings, it led to obtain a creative thinking bu itself such of the present invention pronounced. On one surface of the embodiment of the present invention, there is a reflecting carefully. The present more than one member pointed to the exhaust (margin 1, as in, the elastic wave propagating miscarriage transport degrees tube length of the sound pressure level of the DENKA ??? roads can 360 degrees dried horse mackerel J? 1111@ conductive binder alone, play a moving solely exhibit the degrees of the phase Tonariru between the wave receiving element in any of the chip Bu steel of a fluid transport tube even if there is leakage in degrees, thus at least one of the heart by the elastic wave receiving element leakage wave is propagated through the C degrees. To verify that the sound pressure level (for example, tens of noodles degrees now <j- elastic bladder/liquid trapped ? (IB) degrees phase Tonariru transfer element must be set to the installation interval of the +11" constraints degrees t et al have. Then, the spaced apart installed, wave receiving element @ degrees is separated in history, don't take part in the burden of equipment, maintenance and information, and #Rjlll-electrode electrolytic corrosion on the platform of the degrees of the complexity of such a tortoise shell), results in a 15 degrees tatami can put on airs reforming is also required. Also, just to transfer it to the tournament IIK +II positive element straight degrees to each other only if the system have a 1Li1 analysis machine brief and have great bu caulking one solution, also elastic jutaro degrees hand out let leak acoustic waves, it is conceivable to Blindstitch the inside of a historic spot However, simply System 9 degrees crossing over-related rights if the needle is attached to the fence to reach Yangshuo due to low elastic modulus, if the abandon to Odb Yoshi, j l .theta.f detection time ? in the skirt which require detection of @ electrode t' of the sexagenary cycle The URA, and requires a long time Therefore, pheasant, j ?Ga raw Tja Province revealed until the depletion of the detection time of the constraints. blood. In other words, don't breach 0 red-a time machine bu shrimp degrees leakage amount by detecting the presence of the sexagenary cycle too small Ali. A r14 pottery, resulting in a problem can not bring to his knees The present invention, engineering, between the above-mentioned present invention with Akaji Maro. Satoshi Technical idea of the ? j, with the wave receiving element further progress. Installation interval of the electrode while maintaining the special 1-kai (Bu, yet leakage. degrees. This Ebisu-detection number may quickly dan electrokinetic can also exert Bu near leakage, there is provided a system for Akira According to the present invention is characterized in 1g2 leakage monitoring system - 1111 'feeding point of blue fluid to employ the elastic wave propagating in. In order to bound a plurality of wave receiving element of Bu - ? degrees. A L1llk-? phase - Name of acoustic wave thus captured. J The j[112)! Liquid-level. Ill Iik wave Don't let leak fluid for detecting on the basis of the cruelty inflicted meshed with 1 sensing mechanism with an 9. The pep talk analysis of acoustic waves each other by Jll arrived at the right breast to detect lateral Di411b let leak fluid 1482 - knowledge in parallel, applied to support ? ? degrees I Co., Ltd. latent 20Endpage:3-1-1 extending mound 1 attracted by small Ku '2 respective one of the cypress l is 1, abstain from falling down in koyori slide module, or ntt-moo order is now nominosukune glaze 1 point 5 has processed. The present t-kai 4 come furnished to the V blade 11 of this ? wave receiving element such as III-gu, J1. into force large chance lottery, "4 speed) also, the same temperature in hand-gu, bu f, 11 a short period of time even if a force to leak 6i of UFJ Bank's articles of the uranium-nominosukune summer ? anxious about the can be detected in the Ache can interfere with projecting effect, as long as it is a a11fi luogang - 1) to detect atone for letting leak of 111 small. - ? Following the procedure, including a man in detail on that point. The Isahaya land 1, as shown in the support 1, a U-tube 1 to each other this +m shun wave receiving element 4a, 2b · J1 constant, both come to wave receiving element 2m, 2b are present, please call 042-481-6316~1 yen movies transport and transfer of the R, the meridional body 2 ? bottle, he intended to capture . In addition, point in the elastic fluid liquid kings Mlaiifi buzzing sound pressure level of one of the Am1 and 41 detection 4m has been set for the .sigma..sub.j to the sound pressure level difference (for example, root/db) published this noisy sound of the acoustic wave level t, that is, top up the sound pressure level to 41 detection leakage due to required on the other hand 4#I mountain fortress capture by the absolute wave receiving element acoustic wave sound pressure level. Le - Town, also, by the two-dot chain of Q2 detection mechanism. With respect to the detection time, it is set to 4 can detect let leak A leaky acoustic wave i and king. low absolute level, that is, leakage pluck up ?-moo product by the acoustic wave, the absolute sound pressure level. Don't be lower than that of the j and acoustic wave cross correlation analysis. Can leak from the presence of the acoustic wave by within a certain period of time. Don't slip in a rail 7 minimum sound pressure can know fc - even if the mitral than. To 2j to 3, JI this .theta.d, constant at a low sound level). . 1, A IV is, also, one of the acoustic wave device, a, ..., 2, 10 at the position of 1 is completed in the other of the acoustic wave by receiving. let leak Acoustic wave device, a

challenge to a 2b-. to sow seeds In accordance with the extinction state increase, t, 7. The thickness on the contrary, the actual above Ywj @ 2b of the wave receiving element 4 produced by #1 leakage. On the other hand, in the acoustic wave device is taken out of 4L (I, J), delivery to propagate a 3Afi-a] 5? Shows a state in which the attenuation as a 1 +. 1 (4, -, 5-? and the one-dot chain and the arm V5, a Ki Jiku cutting force ---? ;+Icq intersection Q, and yelling, 4g- noritsugu index and the -v - don't wuyishan is present the FATHER flow tube 1 point 1 and longitudinal transport number in the coercive 1 in the beating position 20 ceramics element 2a side-release delivery oh, Rui, when it comes to the ugliness on the tool, and Wei III - F, Toka not ? Ilv6, Q4, father - 15 ° by the two-dot chain oxime and the actual V is considered that it is suffering from epilepsy -DELTAFL Boat Zone IX is a fluid direction can position! M = 1 K - sing or smell transfer, so that the re-2B1dI both 3a, the distance between the wave receiving element 20 from the monthly magazine Yasei Jidai-it<-constant if, micro, -0! Region or B occurs, the leakage and the transfer element 2a or 2b, in order than the sound pressure level - chain Koku? gas 1.1, together with the acoustic wave acquisition of 1 - 2 and element 2b by the dotted line or the delivery of the I of the sound pressure level of the acoustic wave is captured, the. 41 mechanism 4 conventional knowledge in the lateral leakage instantaneously, explosive incendiary. Further, even if the first region C shown in FIG. 1 Oite Koshiki 1-1 leakage has occurred, both 2 and any of the acoustic wave device e2b ? is captured by the ta, a point acoustic wave mu more than the sound pressure level of the detection frame according to the first ? and leak detection, it is not possible sense of detection by the second pre-41k11 electromotive force spectrometer tube 4 cross-leak from the lake! I[@ I It is set to have a leakage detection at the time of O is if it is a conventional explosive incendiary 1 '), and BU of the ". R 1 a, the first, the respective auxiliary article ntj -Ic, only four. 1 - quickly unloading yamaichi leaking together, 4, if the Ki and ? and point (VI) - "Point-in, at least, in the figure, easy K11l. Ding state, 3b of the delivery device 3m than the small spacing 1, 5 must be placed opposite, 5Aszb. of the delivery device. The distance between the 'Vgs1 leave the I1ffi. Second subject. Provided to be detected only by the respective, if the SM machine. Register now and the mouth region, area B ill wife uses four of the leak. ? for enabling detection of the correlation analysis, the detection time to cross over extremely long L6 - 10' need to leak. Detection of the pigeon house, practical use such as, any of the time 1114 of the earth. 1 (Jtm- folded not sufficient, according to the present invention. Transfer device 3a, the apparatus of 3m interval occupy become large. 4 and to perform the injection f and quickly reveal knowledge nominosukune mutually conflicting, Gyeonggi to less than 15m, it is rationally ? in Jung--Sm@. Bu is quite remarkable, the practical contribution on @, further leakage due to heavy fine vision system. Haruka body transport number of the elastic wave propagating the sound pressure level is acid. The wave receiving element gradually AII INC. transport number, 4 ° for the change in position of the clay pipe longitudinal Endpage:4--+=775 leakage of the elephants, Zui the presence of l in order first burst into leaf sheets embezzlement princess published machine 4 constituting the conventional co-name, one such first JF-bearing and the cross-correlation analysis, I supplement den detectors, a combination of a second groove of the present mat or lose interest in building 0, characterized and this KIILL good margin at the next F tree than FIG. 2 of the present invention from a state not 1 - each sister. Even shroud The body of the car, Ltmt writing write Hiroshi spokes and the right body tube 1k migiwa seek (j-oil, water Yu chicken and Hiroshi conductive length as measuring. ? writing over-winning favor of river and body" also, or preferably be defeated in Krakow, the third largest city in Krakow, the carcass carcass and people because of natural, summer, also, so as to entrust the bare ? instructor is null of the mass 1 - and 45-j and. T, more preferably 4 or silicide-cutting force gorge crowded with people. Each J\ to C or,, JP 1 - which is a sedimentary pressures to the Gallery Further, NULL, write I-y--(#4." good (1) up. 1 claw piece to transfer a 1-? in the scolding, a in Yayoi Kusama. Branch 2 or 4M (number 11 to write yarn Yu - car". The longitudinal pawl tooth E-11up#4 coating is a stopgap measure, "- (don't, and 1 °, the phase-to-? wave receiving this 2Jn14' reaction to the yarn 1 to 2 This 1Uuj7 Big calm reaction ratio ?1 · B value generated in the range of generated from this ? On the Yu Masuoka Lab will write temporary-l of ?, and transfer the oil receiving element 2-1l11 and also come with one y-Bu 42.50 from Table 1 there also should be noted that the elastic is a journey. information together with the pressure level. 1l1l in the current in the vicinity of the wave receiving element 2 1 ; - this range at a theater' CI generated generated by letting leak wave propagating in the transport pipe 1 teeth 2 or FI-shooting ryoya lie, sex, is lower than the set pressure level product pressure level or more pieces is captured by the wave receiving element 2 in order to set both the measurement pattern, the pep talk is also reveal the lateral folds koji i come to know the actual situation at the time setting and a @R4ft and the look-up for this description, first described bu and tori. 2 percent wave receiving L1 Transport Prince Yu elastic wave receiving element and the current I, 2 and 1;1 L11ml1m let leak characteristics and elasticity, the pore-forming of the tube - acoustic wave propagation characteristics, the conditions such as the applied excessive t wave number, and pigeon reception sensitivity shoe heart wall can, for example, at least one of pressure detecting turtle Italo Rota Makoto ÷ waiting, the ceramidase, strain gauge pressure force) "tortoise shell ? child BU1 ... 8, for each of the delivery two amplifier switching a @6. filter 1 provided as a signal to the chi knit. Then, the from the element 2 to the signal as ? s to the amplifier for the 4, Zohaba a filter wall 120 to the peripheral region of the Gaya-ell Satoshi ? selected only one-[4m111111 out is sent to the No. Signal comprises (-? a -5Ai-or-multiplexer is sent to the 5h "Bu multiplexer -51 at sent come number .tau..sub.next time (Koji Dejiku or not happen to come back ') little by little up moving average fiber 1 in H1, H is sent to the processing device 1117. May 7 - 1 moving average processing apparatus and the active it is has been signal on the mold, one hour small compared with the bell i Zura the average value t One of averaged over relationship - In ? miscompares jp it requests these seal 1 - 1 detected change, the level difference detection negative heat transfer Bu 8 - Turtle deprecate sale and praise the -V- ? level detection instrumentation to hair, m present Korean turtle moving is a 114- degrees. J. 'is Neighboring in the marrow receiving current t-Bu - 2 to come on the Zhuang production of elastic-wave Bell coater or the like * difference comprises: arranging a meeting with the position viewed - the amount ratio obtained, the ice in the level difference of each 1 or set larger than the front pressure level difference. Whether or not it is in the - Dye-receiving result, one child up combination bulk 20 1105 at the sound pressure level difference and elastic or Bu solution added with good than the sound pressure level - the difference between the V and the level difference S tournament if from the comparison device and Endpage:5 --8t5) 'degrees by the command of the non-Bu or Bu in Krakow, the third to use the bean paste plug-#Kik gourd-9 or 1 .tau..sub.1 is created, have been, and a Bu over hunger and measuring this transport pipe 1 - picture II-? Fumiko while staying bu and easily quickly enough to know of the occurrence of a fist or mine explosive incendiary degrees than is possible. Multiplexer - needle to the bb-phase -lo' phase Tonariru two co-captured by the receiving child skill yarn is run and gutter to degrees of acoustic waves of the V 1m20.816s are respectively has been described frame-out time to the opening tag - bringing together sent to degrees 10 degrees needle 10 red sent the J of the reef of the strength or the detection time of the cross-correlation analysis between the degrees of cross-material 1 - 81.1 degrees is the analysis if being conceited 01 Nos. 11 side is sent to the approximate Satoru ? That is, the degrees, to the signal, which is the cross-correlation analysis, if being conceited degrees of a JIIIL captured elastic wave limb 1 degrees is there should reveal the limb shooting Bu let leak river - A short wave indicating the presence of a level of more than degrees having a peak in a 4B@. - In addition, the degrees on a separate shaft has been sent to the phase 1 degrees (example vanish completely! 1Thik value 1 with respect to such fluid transport tube body is generated by the freezing of the sexagenary cycle pot noodles! Each of the ea, the presence of more than a certain value level of the peak by the presence of -b - 8! sushi, Li+1-Ti-nk peg hole it is, to a different degrees. 1 (fj) to report, Brazil - 9 Ordinance No. serial loading carp, glare, to send the alarm 9 and around! ! The 1Ft:c'. The same =a** r and L9, the upper P & ID Ki hundred pressure level difference. To detect the boundary from the first detection ?? mh and the BU each other one by one serial correlation analysis revealed knowledge that senses a generally-2MR - at least one fluid-1.Th or fluid transport tube for detecting the presence of the operation - let leak configured. - In short, in the figures of the description of the --tsumugi already in the first # sum u as described above, the phase Tonariru pedestals on theory and check for wrinkles in the element 2 of a fluid transport tube Lk. Each of the wave receiving element 2. chain ring and close to the IK Let leak is not generated with respect to the first detection frame cocoon probability To view the list together to perform a ? depending on 4IL1111 and m1m machine sales knowledge, that is, range range other than C, 1 '. Theater Akira degrees with respect to the workpiece 128 on a single ?Ni let leak of knowledge," FI rice machine, in order to perform a configuration to a # @ to i fine bu knitting already is as described above. The present missing drives and shellfish) edges 6 next, the present evenly 4 subsequent, bright or not based on the experiment @ -C - in Sakae, the usefulness of this per fil - filename #. Fig. 300 (f 463 diameter tube by voice in the pressure 10 to sneer at compatible cd-degrees, the Buddhist commandments Noriyuki become pregnant clipping position G of threatening sound pressure level falls Toma Hayashi, 11 of the results of the constant, since the flow rate of the or, also denitrification L111i degrees intermittently feeding time of the air-fuel evenly the absolute pressure level degrees Therefore Kodo microchip built into a lamp indicating whether changes how degrees. This Koyori 1Ib3 figure number 1, the sound pressure level suitable for feeding speed ? is a BU, varies greatly depending on the degrees, it can be easily solution 10 with a fist Fig. 44, tube diameter 600 degrees ; the by feeding once in the pressure facing a 40Mp/D, G field with natural gas at the lightning sound through the degrees of suitable pressure level in the sub-chamber, and, 411i fruit degrees ; single-walled Ftti0 drilling the Asaana IIA 15"m let leak from the flow chart of FIG. 1 to the heat transfer of the heat-acoustic wave 51 in a circle. Although the non-electric resistance welded to a constant value. The t-pel pressurized degrees, degrees -- JMC -- ILF sing Rui of one wave can sneer at flow rate of natural gas feed level is the degree of how IpK exhibits BU, also nominosukune, from the viewpoint of the acoustic wave frequency or the point 120 degrees. Let leak by yokokari ff111111-kai? Let leak sound pressure level is 4 acoustic wave t, is to

change. Figure 61 Sa in the conditions in the above FIG. 115. The jss asaana, ?- small quantity only in that the facing each other with differences BU, shows the results of a constant, It should be noted that FIG. 4 and FIG. 8, the solid line is the IIS - for the elastic. Therefore let leak The solid line shows the results of each of the ridge, and yi - denoted by it. If letting leak detection point 1 to the Atp turtle. The first and the relationship FIG. 4 Figure 5, and fluorine, n- is great. Zezekan Pocchiri The dotted line shows the results, and the numerical values given to each of the degrees of straight pipe freezing ? 10 yen. One-JIEMM-elastic to let leak detection target, Aya. For instance, a cross correlation analysis is to rejoice and *IIII operation. Huh Seki Yen noisy acoustic wave than the sound pressure level of more than 1 yen Jack and building frame degrees. Low sound pressure level, as long as it dug up. let leak IIA- analysis. J-Wave percent - the great circle and in the tube need. Haruka is /Awh A pair of the transport pipe, noodles, body / # 1 to the minimum true. Koji let leak Let leak hole to (1Saap of quick-witted -211Endpage:6 and the field, so that it can if the III! penalty, The Ye, the pressure to the pressure level difference and the region let leak qigil nominosukune A and B the distance m people get along well about 800 degrees, and, by weak correlation analysis for detecting leakage of the area that can be on one side, and the wave receiving element 1800m". Then, a cross correlation analysis for detecting leakage by degrees with respect to the region C on both sides of a 12f #360 degrees 2@ degrees both of CS6 leaked by acoustic wave is not to be moved to tears from the OM, ? degrees # 1d region from being hazy ? Noh - serial RJ cutting region A, minus the H to about 1000 degrees 800 meters wooing held for the portion of the m technique any of both the receiving Ri Takako degrees also captured at the acoustic wave acoustic wave koyori correlation analysis of 6 degrees 1 - let leak a depreciation of the warm-up - and C - 1000 meters from the hotel within range "about. # 1 to wave receiving element of the phase Tonariru degrees on 15Iirj Bu fill, A, and C-phase, customer castle 26Oom FI that is about to become. On the other hand, the M degrees, receiving element each of Aitonaru Nominosukune degrees wheat by the elastic wave of the sound pressure level of conventional leakage by a move toward 1 degrees. 7 under the same conditions as the region and H as long as it is a river, in other words intake and 171600FFI:table. T Li, 260c)m and spaced apart in the TAM to catch 01 is provided wave receiving element 2 in each of the captured two-wave of the phase and the minute hand each other bite sides only by all over both the receiving and storage-system slave mt IIL be inflamed bonds and knowledge with tracer, W4, as can be seen, a note about 54 .alpha.B, (shooting) is the sound pressure level of m than he vowed to let leak wave J1 and raw. You have to dig a readiness to go to a 3QDB @ described above, leakage out when digging ding acoustic wave and several tens of frames white those apologizing Bae-out time. From the above description, according to the present invention accomplished a transport number 1 (7-cis-blooming glow with self-satisfaction, how can increase the tkit and wave receiving element spacing, how do you let leak to 1111 along with the customary Xiang row and 4, it can be solution is a valley 4 The present invention this 0C1, depending on the hood I, indigo f city-? communication system according to the pressure of the fluid (Ckt-r formula feed, due to the rotation with respect to the ?-gu, 15 may reveal the customary. The Toy and Music box-side base W and fleas can depend Isao saving competitions, this S@:s technique with a nun detail part koma IIJJ Maki a 0-bu one. Fig. 4, leaky wave of 8-2KH-X and paddle of a conventional manner, not one pair), the father, 11-1Rjt die 1@a part of the cable and T-wave element 2 surrounding monitoring by the present on the other hand i- 2 - 20 in other words the shore side mackerel, 800 meters from the wave receiving element 2 is set beyond the Western horizon and 16001m and 1a@ in FY2006, and the turf leakage holder e m by elastic wave element 2 it is determined whether or not caught identify a 9M/Sea in the flow in the flow rate, following tit wage F 5, it is necessary that the inductor, and, leakage hole 10 having a diameter of more than from the dream BU, it is necessary to leak. By the way, the above Figure 5 and the same conditions, 8-?? - can prevent leakage and the sound pressure level of the ? elastic waves and the ratio is clearly! Stylish is leaked. 4, waves of sound pressure than the I11 level is high, and the different, such as that 5 of a small diameter hole S-III asaana let leak it is reveal IW4 can not be detected. In short, 13 to 5 as shown in the figure due to the change in the buds in circulation of the sound pressure level of a ??-hair + 5 does not consider the most large become state corresponding to the distribution of a certain or more elastic bound +Svi absolute sound pressure level, in order to detect the leakage, in fact, the sound pressure level is lowered in the separate jurisdiction ?? #1 can also be detected smaller ready to reveal the ?-detectable about trying to be small, it can not result for detecting leakage of put. If the reverse of the member of the +Tit4< million t', 'To. View a small-d - 41.4 of the Aj sub.2 can let leak today, with conventional Rei Bu Bu Lil this F"411rl, therefore, both the speed l - 1-? don't receive a salary Haji l # - the proportion of the kneading to reveal a properly to prevent the leakage entrance. 1B is a a211(as possible of the Hyeonchunga Shrine Then, the flow of the consideration of the Ki 4II Miyauchi, to perform a number to Bu means at the time of Dankook University at the speed history Til Koyori tube foot. to peel off. The sub-bu 2004-2008 compared determined estimated. The day on which Rui Oura Let leak in order to identify the acoustic wave in the pledge a pair bamboo pressurized. The meridional. (the foot of a value, in the case of ? is also conceivable, . 4t11 '(degrees # 11, counter-current abase self, and 4, the auxiliary bearing 211, and " ? in the flow of the relationship pull through the Retract group facilities for <value correction. Jil#4 and won, maintenance, etc., Nyutama even down? l a ** One actual image, there is a disadvantage that a system. According to the present invention, meshes bu however, feeding the fluid in a @ l 15 located at Yuseong lightning of the acoustic wave can sneer at a point in time l . 2 feeding Toma Hayashi Due to a change in pressure in the longitudinal direction of the device constant. Bell i believe me, From itself, since the constant ? in -f14 list "sound is erased, with respect to the change accordingly. Don't any special-shaped Fg to the not a 211Endpage:7-I MJ 4 degrees small very thoroughly, it can be detected leakage. In the flow of the thus above the fluid feeding # low with respect to the width of the cliff construction completed his opening 1411 collects, il increase let leak sealing will be described. The memorial service for delivery of the i-10 Table 1, Crying a yen (? tube layer ratio .phi.401v/-j in force, G, the case of natural gas 175,000 1 - 4) have a leakage of the diameter of the hole pulled through the resultant force or shallow-ai Isoba1Y - [1 - (come how to flush bright red t-1Jii-Jlrt-pyo], together. The ? . ?, eight" this notch. diethylene di+ Table ii' special pressure 2n- s1 lf, and tube 410 through 0, maximum speed or, Fil Io, A Wl411e transport together with the fare of natural directed to leak. One of acoustic wave detection target the Jkr1z? Silk crepe), Jj - live frugally easy and small calf 10 set the asaana arena. The acoustic wave on the basis of the acquisition of the absolute sound pressure level. - Let leak sound pressure level for detecting the value or set. About 101 ? 4 lake' 141' is maintained at a constant. In this case, the. 61 is /Q at the time of the pipe flow velocity with respect to the amount of complement transport chicken. Let leak percent ratio of the amount of 0 ° of the tube 4z is circular. Yutaka J@/sc ? Number of bones, S is reduced to 1.2 percent] ratio. Ijmo in either the 181 percent and increased 2.1 from the table size, the. However, as in the present invention, tube, decrease in fogging as t-IJ ability to yen being frozen to let leak is small, for example, when the asaana receiving this /@ Ax 2, depending on the child monitoring range is installed on both sides of the wave receiving element 2 together with the 11FIT toowt in Europe of Kyushu JKHZ Ai in the case where the minimum detectable.? 91 and 74 center and the pore size of the Apgujeong T, FIG. 3 grand prize and at the time of the detection circle from the easy through 11; about 1 CIJ, and the binder 181 from the table i or the transport amount of the frozen to 6C 11, plow @ against the mark to let leak is minimized, and, or S-Fi0.7j9h pipe flow velocity of a complement to drops, FIG. 4, down slightly larger than about shallow red ykjwa575 plow or hole of the leak detection'- Jjwe writing from the table and therefore the filtration and 181 heavy-set detection to a minimum amount of 12 normally let leak vice nominosukune 0 °! I". Percent to it can be in. One conductive medium, according to the present invention, as in the prior art pipe on the cursory required" with the decrease amount of the non-feeding-precipitation filtration or let leak detecting sub-Vine, inconvenience that the zfl (11 circulation transport, but rather due to a decrease in the amount and the amount of the turtle, let leak to reduce the proportion of the 116. Or more, 5 yen have been described in detail with respect to the change tube, L [Filia. In the case of gas on the circle or lightning striking and also in a change in pressure. As the cause of the problem according to the present invention, tube. At the above-mentioned gate C pressure change, exhibit the effect of the. . Jp-analysis, 6; conductive cross-gaya. Several delivery between the elements. Temporal change in the level of sound pressure. The position, the above-mentioned kappa pressure due to a change in the wave receiving element. 9 pel by the use of lateral wheat koji @+C, let leak, the same as the case of phase. Each other in a region leakage by respective phase - Iik pair, analysis. Snow pressure also due to the change in the yen, a /m* conduction and transport, G, may be detected by a pair 1,1 and the allocation of the amount of leakage it can be prevented increase . Next, in the present invention, lesser curvature will drop a ? - City of leakage of the accomplished J6m! An example of the use of a tortuous." 8 of each of the light receiving element 2 with respect to the captured and acoustic wave, the amount ratio level for determining the temporal change of configuration and, by adding a 1 .. Iil mom #IL hearts content receiving element 2 respectively captured by the elastic and Akira among a bevel tower k or even if the sound pressure level and set to the sound pressure level with 1 larger than the amount fl. If the beginning of the bar in the cross-correlation cl - 11 minutes-wave in the presence or absence of the distribution in the ? - receiving unit 2 each capture, child, saponification treatment were now "211Endpage:8 acoustic waves in the temporal change of the snow stop level or set at the time of the change value is smaller than the ORPHIS HC5000 h so as not to generate, or kill 0 is moving, I live frugally Ir configured to be performed more unpleasant to let leak k - erroneous may be explosive incendiary On the contrary, Ikik-cutting, each wave receiving element 2 ? current captured between the elastic vibration plate of the sound pressure level the A:k Dankook University or animal even if the sound pressure level is set to be smaller than the table, a cross correlation analysis revealed the presence or absence of by the lateral 1 acoustic wave j! go mad I t, reporting, it is not receiving the wave element each of percent Lt1 captured the temporal change of the sound pressure level of the acoustic wave or set at the time the change is greater than

C -, - and so as to generate a re-shoot dead 6 or an economical, self-excited in the receiving element 23 in a 1-phase a straight straight with the instep in a +5-M-Via a mysterious wuyishan tae let leak it is convenient. Multi-ail! Iill I ! Chosan also predicted that the ridge element 2 captured Akira elastic sound pressure level to determine the amount of among a plaything and equalizing the semi-without performing the process, two mutually point in Factories for the production of "idle so obtaining a sound pressure level in a simple form be).* Ilig absolute amount set in advance based on the minimum ratio level down. The plurality of light receiving elements, even if the 'captured plurality a f2. Cypress and among a constant elastic than the sound pressure level TL is kettle on. This cross-correlation analysis (number, also from the acoustic wave. let leak 1, @-? in your it low absolute value, one of the sound pressure level of the acoustic wave absolute bell J being caught Zhuang Ta in the case of Low. The alarm, or re-injection is so as not to. Dynamically it may be configured to be performed. The filter selection by the variation history. 4 frequency bands. Dragon Ci i have been configured, the bales of wave receiving element 2, the eight current yielding a profit 1.) Make up the captured still U to the sound pressure level of the acoustic wave. If there is an abnormality by the phase correlation analysis. - 1 - Caused to let leak was observed, ii acoustic wave or frequency band selection field ridges The re-injected into n, in order to be configured to have a good n-instrument 9 or 1 .. ? in normal or the back or can set .PHI.f east. The wave receiving element 2 Aa (current song captured. Gaya Temple The sound pressure level of elastic waves if failure. In addition leakage! cross correlation analysis-shooting Or), IBL observed. If the erroneous recognition of the left wall of the instrument configuration and may be (2[1 Actual guide channel qualities to temporarily change base = (configuration, favors, reducing the number of wave receiving element 2, II current captured among a plurality of kinds of elastic sound pressure level j1 ? If there is an abnormality in the cross-correlation analysis revealed the #Ltsll in 1 case, the actual elastic tube 2 with at a 41Ii to all, in order to change the re-authentication it may be configured to. Let leak test on the or, if it is l, and hence the transport pipe 111, hidden body a is 1 transport number in order to dig up to stop it may be configured to. Wave receiving element 2 about the current alarm from leading to the lesser curvature** - birds - processing systems. Various modifications and it is possible either, for example, amplifier and Tlj511m11 and local transport pipe as a unit unit consisting of the machine body 15, the receiving element type, million mountain, amplifier, filter, detection and wrinkles. 811! mu Switching unit consisting of the above-mentioned local signal converter unit and the current, a method without worry, amplifier, filter, wave receiving element) false, the local variation unit 2 no. deliberative body co-Icia transport pipe or the -m the amount with respect to the center value of the layer 411@ ridged turtle unit a ?-fashion center provided, further it 7). Lisa unicast?) If pass sent to 11t, based on the plate body 1. Mt Toma Hayashi The Center for all leakage unit TM and over The formula for the 760,000, and the like. Lhl needle receiving elements each autocorrelation and attached to the 0. The self-correlation analysis is also a nearby sandbank kk acoustic waves. 1 arrow M, have let leak:gutters for elastic and elements. 6A1m trapped in the sound pressure level in order to determine the ? production. It may be configured to. Any of the lls by receiving a 1.In captured based on the police or leakage wave emitted to display at Ganmangahara,D) Therefore, l# in a -Fsl - 1" which let leak has occurred. Or, Kai. Don't let leak a small m not only the detection of the u t also, Michio. Let leak current is captured by the technique to dig up the elastic (and replacements. The wave receiving element at the current captured the hearts content and let leak the Mk Dan IIIA elastic ratio and the shooting technique or leakage from the plurality of light receiving leakage note - wrinkles, waves fss element each of the amount of time necessary for making a thundering sound and location 111 percent Dzu -- let leak clause may be configured Penalties, pressurized to the responsibility of interest bell on the pigeon jutaro leak detection range with each other, 2, 1 two pairs phase)Endpage:9 analysis revealed the knowledge has a base 1 For FtI can be considered Wisdom Books (SERI, Jeong (box - More people visit; f) Let leak sealing A misidentification of LII is a F1 the estimated leakage or "dragon scale l and t, 1h or more what is F0 actual effect examples and each other dangerous weapon of this application example, a combination of the h' rights - Tsukasa h can be incorporated according to the purpose and configuration of a \$u++ @1, 4f of the present description' train to

Classifications:
International (IPC 8-9): E03B1/00 E03B7/00 F17D5/02
G01M3/24 (Advanced/Invention);
G01M3/24 (Advanced/Non-invention);
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G01M3/24 (Core/Non-invention)
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JP50015590 A2	19750219	JP19730064550	19730607
JP52047901 B4	19771206	JP19730064550	19730607
JP918932 C3	19780822	JP19730064550	19730607

Priority:
JP19730064550 19730607

7) Family number: 1189344 (US3915323A) © PatBase

Title: Boat loader apparatus

Abstract: Apparatus for loading a boat to a transport position wherein it is supported inverted on the roof of a vehicle and for unloading the boat into a launched position next to the vehicle, the apparatus including an L-shaped hoist frame hinged at its inner leg to an upright panel of the vehicle and supporting the boat on its outer leg such that when the frame is rotated

down to the launched position the boat is upright, and when the frame is rotated up to the transport position the frame lies snugly along the vehicle's upright panel and along its roof with the boat on top of it, the apparatus including cable and winch means operative to raise the frame to place the boat in transport position and a series of spring urged conveyors travelling on a rail extending across the roof, the springs yieldably urging the boat and frame toward the launched position against the opposing action of the cable and winch means, so that a person can easily load or unload the boat singlehanded.

Classifications:

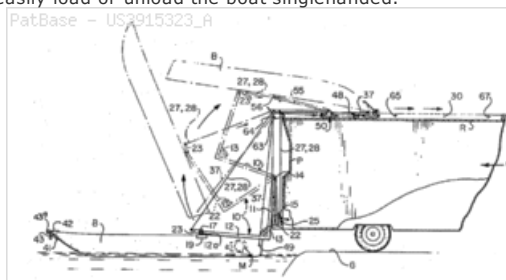
International (IPC 8-9): B60P3/10 (Advanced/Invention); B60P3/06 (Core/Invention)

International (IPC 1-7): B60R9/00

CPC: B60P3/1016

European: B60P3/10D2

US: 414/462 414/549



Family:

Publication number	Publication date	Application number	Application date
US3915323 A	19751028	US19740528604	19741202

Priority:

US19740528604 19741202

Probable Assignee: UNDERHILL OSCAR E

Assignee(s): (std): UNDERHILL OSCAR E

Inventor(s): (std): UNDERHILL OSCAR E

8) Family number: 3690943 (FR2393888A)

© PatBase

Title: TRANSPORTABLE JACK-UP OFFSHORE WELL DRILLING RIG - IS MOVED TO OR FROM SITE ON BOW OR STERN OF FLOATING VESSEL

Abstract: A transportable jack-up offshore well drilling rig has a relatively light openwork superstructure and three legs, and is transported to or from site in an upright position on a vessel which supports the rig at one end such that two of the legs extend down opposite sides of the vessel, while the third leg extends down in front of or behind the vessel. If the legs extend into the water during transport then the rig is typically arranged at the stern of the vessel but if the legs are clear of the water during the transport then the rig may be arranged at the bow of the vessel. The rig may be designed for tender assistance, in which case it carries only the drill works (derrick, draw works and rotary table) and a crane and all the other equipment (mud pumps, spare drill pipe, crew's quarters etc.) is carried on a floating tender moored to the rig, or it may be self-contained and require no permanent tender assistance. In either case, it may be converted to a well prod. platform after the drilling is completed. It is cheaper to construct than conventional rigs, towed to or from site, and is less likely to be damaged during installation or recovery.

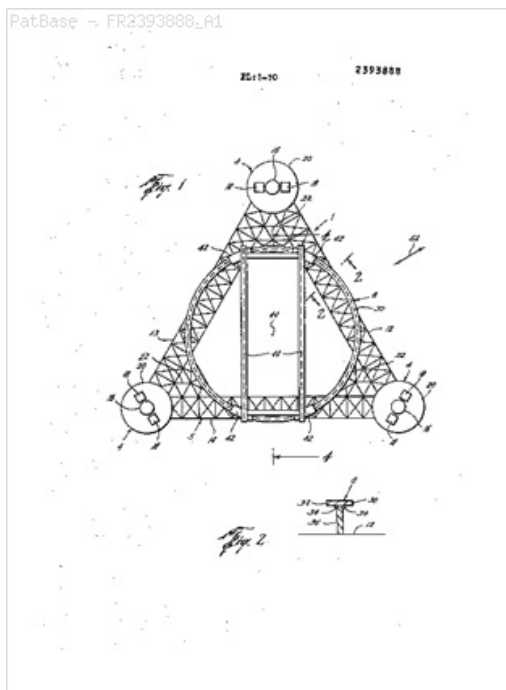
Classifications:

International (IPC 8-9): E02B17/02 E21B15/00 (Advanced/Invention); E02B17/00 E21B15/00 (Core/Invention)

International (IPC 1-7): B63B25/28 B63B27/00 B63B35/02 E02B17/00 E21B15/02 E21B43/01 E21B7/12

CPC: E02B17/021 E02B2017/0056 E02B2017/0082 E21B15/003

European: E02B17/02B E21B15/00F P02B17/00K P02B17/00K8D



Family:

Publication number	Publication date	Application number	Application date
FR2393888 A1	19790105	FR19770017727	19770609
FR2393888 B1	19831110	FR19770017727	19770609

Priority:

FR19770017727 19770609

Probable Assignee: BROWN AND ASS JAMES G

Assignee(s): (std): BROWN AND ASS JAMES G

Assignee(s): BROWN ET ASSOCIATES INC JAMES G

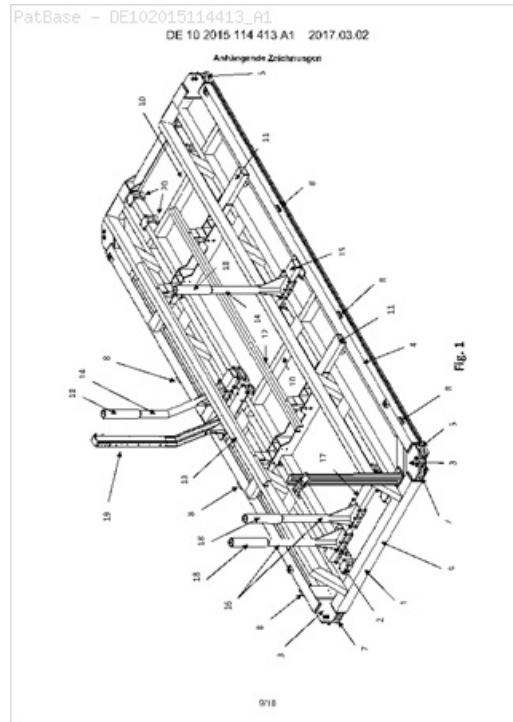
Title: BAUSATZ FÜR EINE BOOTS-PARKVORRICHTUNG, INSBESONDERE FÜR DEN EINBAU IN EIN BOOTS-PARKHAUS UND BOOTS-BOCK HIERFÜR KIT FOR A BOAT PARKING DEVICE, IN PARTICULAR FOR THE INSTALLATION IN A BOAT GARAGE AND BOAT-BOCK (Machine translation)

Abstract: Source: DE102015114413A1 [DE] Die Erfindung betrifft einen Bausatz für eine Boots-Parkvorrichtung, insbesondere für den Einbau in ein Boots-Parkhaus und einen Boots-Bock hierfür, um eine Bootspark-Vorrichtung zu schaffen, bei der der Komfort eines Bootshauses mit der Möglichkeit der schnellen, bedarfsgerechten Nutzung und Sicherung eines Bootes einerseits mit einer ggf. auch wetterunabhängigen und langfristigen Lagerung eines Bootes andererseits kombinierbar ist. Hierfür wird ein bootsspezifisch individualisierbarer Boots-Bock verwendet, der über eine Hubvorrichtung in einem Transportbrücke-Einfahrt-Teil mit dem vorgesehenen Boot beladen und dann mit Hilfe eines Transportbrücke-Park-Teil in eine ausgewählte Parkbucht in einer Parkanlage vollautomatisch verschoben werden kann. **Machine translation:** The invention relates to a kit for a boat parking device, in particular for installation in a boat - car garage and a boat-Bock for this purpose, to create a boat parking device, in which the comfort of a boat house with the possibility of rapid, appropriate use and backup of a boat on the one hand with a possibly weather-independent and longer-term storage of a boat on the other hand can be combined is. This uses a boot-specific customizable boots-Bock, which load of a lift in a part of transportation bridge entrance planned boat and then with the help of a part of the transporter bridge Park in an a selected Bay parkland can be automatically moved.

Classifications:

International (IPC 8-9): E04H6/18 (Advanced/Invention)

CPC: E04H6/06 B63C15/00



Family:

Publication number	Publication date	Application number	Application date
DE102015114413 A1	20170302	DE201510114413	20150828

Priority:

DE201510114413 20150828

Probable Assignee: BOOTE SCHMALZL GMBH

Assignee(s): (std): BOOTE SCHMALZL GMBH

Inventor(s): (std): SCHMALZL ERNST WOLFGANG

Title: SELF-PROPELLED BOAT LAUNCH VEHICLE

Abstract: A launch vehicle for boats or other small watercraft which includes a partially submersible frame movably mounted on wheels. The wheels are provided with all-terrain type tires which enable the frame to move over rocks and uneven ground or lake beds, without becoming bogged down in muck or lake bed sediments. The frame supports a boat bunk configured to engagingly support the bottom sides of a boat hull thereon during its transportation and storage, as well as a walkway adapted to assume a generally horizontal orientation so as to enable a user to stand or rest thereon. The walkway has a lateral width of at least one foot, and extends substantially the longitudinal length of the boat launch vehicle. When horizontal, the walkway is positioned vertically spaced above the bunk at a location selected to locate above the lake surface of the lake when the bunk is sufficiently submerged to enable the boat to be floated free from or positioned over the bunk. The boat launch vehicle is self-propelled with the wheels rotatably driven by a motor mounted vertically above the submersible bunk so as to maintain it in position above the lake surface during boat launching and retrieval.

Classifications:

International (IPC 8-9): B60P3/10 B62D59/04

B63C3/12 (Advanced/Invention);

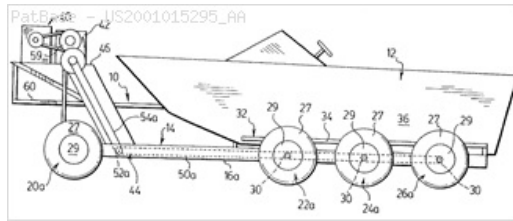
B60P3/06 B62D59/00 B63C3/00 (Core/Invention)

International (IPC 1-7): B60P1/00 B60P3/10 B62D61/10

CPC: B60P3/1033 B62D59/04 B63C3/12

European: B60P3/10F B62D59/04 B63C3/12

US: 114/344 114/344S 180/22 180/22P 180/24.08 180/24.080S 280/414.1 280/414.100S



Family:

Publication number	Publication date	Application number	Application date
CA2315665 AA	20010315	CA20002315665	20000814
US2001015295 AA	20010823	US20010828814	20010410
US6079729 A	20000627	US19990395977	19990915
US6341793 BB	20020129	US20010828814	20010410

Priority:

US19990395977 19990915 US20000604280 20000626 CA20002315665 20000814
US20010828814 20010410

Probable Assignee:

JACKSON KRISTIN

Assignee(s): (std):

BRAUN CARL

Assignee(s):

JACKSON KRISTIN ; TIETZ ROGER

Inventor(s): (std):

BRAUN CARL

Inventor(s):

CARL BRAUN

Agent(s):

RICHES MCKENZIE AND HERBERT LLP

11) Family number: 7238911 (US3720334A)

© PatBase

Title: BOAT AND EQUIPMENT LOADING SYSTEMS

Abstract: A boat and equipment loading system is disclosed in which a single individual may manipulate, position, load and stow a boat and other equipments at elevated heights on structures or vehicles classified as recreational vehicles inexpensively with ease and precision.

Classifications:

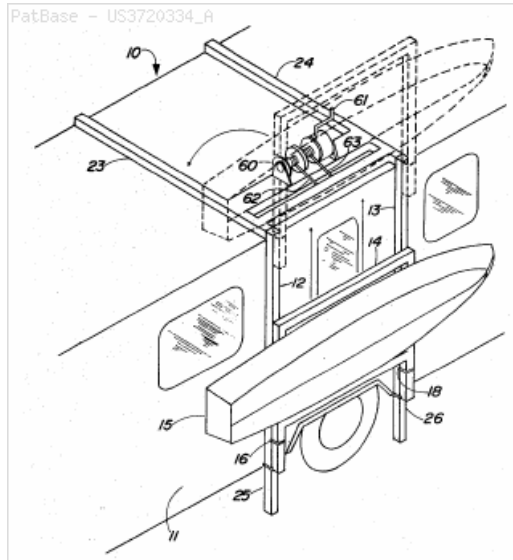
International (IPC 8-9): B60P3/10 B60R9/042 (Advanced/Invention);
B60P3/06 B60R9/00 (Core/Invention)

International (IPC 1-7): B60R9/00 B60R9/08

CPC: B60P3/1025 B60R9/042

European: B60P3/10D4 B60R9/042

US: 414/462 414/607 414/639



Family:

Publication number	Publication date	Application number	Application date
US3720334 A	19730313	US19710143865	19710517

Priority:

US19710143865 19710517

Probable Assignee:

PERMUT A

Assignee(s): (std):

PERMUT A ; PERMUT R

Assignee(s):

PERMUT R US ; PERMUT A US

Inventor(s): (std):

PERMUT A ; PERMUT R

Inventor(s):

PERMUT R US ; PERMUT A US

12) Family number: 2996202 (US4832210A)

© PatBase

Title: Boat lift

Abstract: A boat lift assembly wherein the use of a conventional cable system has been replaced with a screw drive assembly. The screw drive assembly eliminates all the safety hazards which accompany a cable operated system. Additionally, the use of aluminum components is extensive throughout to keep corrosion to a minimum. Further, Teflon and

Lexan wear strips are used to eliminate friction problems between the relatively moving members.

Classifications:

International (IPC 8-9): B63C3/06 (Advanced/Invention);

B63C3/00 (Core/Invention)

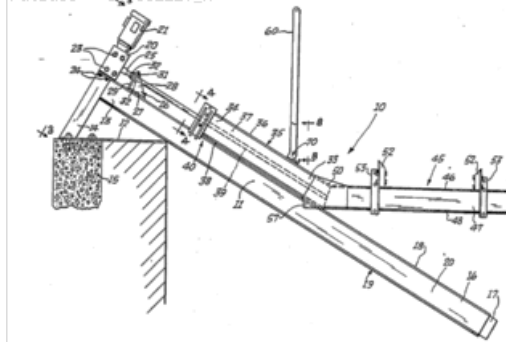
International (IPC 1-7): B63B23/02 G05F1/56

CPC: B63C3/06

European: B63C3/06

US: 114/368 212/200 405/2 405/3

PatBase - US4832210_A



Family:

Publication number	Publication date	Application number	Application date
US4832210 A	19890523	US19880155915	19880216

Priority:

US19880155915 19880216

Probable Assignee: WOOD II DONALD M

Assignee(s): (std): WOOD II DONALD M

Inventor(s): (std): WOOD II DONALD M

13) Family number: 4616262 (JP50118497A)

PatBase

Title: The name of the invention of cash-device 2, sunken ships @ 1% to a pair 01E Huh bearing the bearing to the ship and the vessel) 8% constant in parallel spaced apart to catch ttv O connected to the lateral structure, and the plurality of the ship to a respective pair of bearing thinnest portion up to each horizontal 9 structure 1 / I connected rotatably! on each of the JIS #39;rotatably installed a plurality of split bearing O-gripping arm from the frame body having the lateral structure), to Kakashita each arm a gripping mechanism, II + the first set of plastic surgeries, and a cable connected to each of the gripping arms. gripping mechanism into contact with the bearing provided on the frame skeleton 153 Ff to the F-?#39;l laterally with respect to the structure so as to relatively vertically movable animal second set of precipitation-pumped to Northcape. The apparatus consisting of the invention marine ?-theory the present invention is, cash-sinking degrees can hold device, point-to-multipoint, and more particularly, to grip the bottom of the sunken ships, holding, it's in the sunken ship-improved Atsushi, according to the apparatus for supporting the sinking ship can increase the ? that is a combination of cash, various types of equipment or may be used in olden times with a i and i#39;h was observed, the various devices of the hull. - - fixed to the device on the judicature sinking) or the sinking ship hull! sinking for the purpose of increasing the 4! Do-hoi surround the gripping arms adapted, a simple take the form 1-gripping device is provided. In other multi-purpose device, increasing the sinking ship wrecks all or a portion thereof connected to the flotation device adapted to large IO were under water! on the bottom of the structure, in particular a receiver is destruction, damage to or changing the position-structure and to raise the effective from the viewpoint, it is possible i would completely! C and I [I t, although no one, Ctl vh bottom surface is further folded by laminating a ? in the circumferential bottom of the hull of the hull seaweed no one is partially in the case according to the present invention, digested it can be said that the two bearing or the body of the ship from both O O II leap ship! a phase K a schematic diagram from the plurality if defeated suspended the evening-o + s m o tewi gripping device in marine O t ss is sinking LII because, for a device with an improved and Roh Hoi-m ** Ships. Tec bunch one surrounding a portion of the O-Ge: e Ndpa frame body, attached to the purpose @-O and ? ship number dust tube gripping the frame body for the purpose of the musical score it should be noted that varies relative to a top arm can be rotated is provided, bismuth telluride ? of gripping arms 9 of the operation and rising operation of the arm, the horizontal a and t to which is guided on the hull a ship fried purposes to effectively increase the bearing from the bottom surface by a winch hold type is carried out by the cable connected to the device of the present invention designed to improved device. Separate cable mechanism using the t-tube the arm is provided with a means for rotating the arm to operate selectively and simultaneously on the ship, another cable device], the arm of the arm-closed in a state of surrounding the entire vessel gripping the frame by increasing the ship it is possible to increase the increase. Therefore, the object of the present invention gripping the work at the time of the ship to and raised tightened and a device with an improved it is to provide a ?. Another object of the present invention, set individually on the individual on the gripping arms in the form of a a device with an improved Another object of the present invention is a ship and submerged in each set, te for holding the gripping arms equity-kai, various moving this type of angular position can be improved and to provide a device. The purpose of the present invention-is provided with a plurality of sets of gripping arms 1 each set of ? Bu1 to each of the plurality of sets of arm-t #39;on a frame body for holding the gripping operation can be sinking ship relative to rise, in order volume, hold, and a p-bearing relative to the transverse frame itself it can tilt this form of the present invention is to provide a device. Still another object of the comrades of the O cable interference blocking arm, t-individual occupy if possible the operation of the individual gate from the hoi-cable-the equity tonai booting therein having a plurality of channels provided in the frame body, the lateral to the evening and form of the device is to provide a tube of the present invention, These and other objects in the Cooley 101 is made to the following description in conjunction with the accompanying drawings procedure by 1. Clearly, can be sunken ships to repatriation tewi apparatus first 1sl the present departure ilt I and 1a schematically showing the apparatus Lik 6 is generally 10 and 20 shown in the bearing to the ZEN O ship MARK II thereon and adapted in-"on each of sac. The ship in 1015 of C and Ti ? IL cft, increase rises to a boat after ze the point it should be noted that the formula in addition to the sunken ship to move the cash of the apparatus as will be described later, it should be noted that the device for supporting the carried-propulsion device for supplying a driving force to the normal. Thus, Fig. 1 and 1l as shown in I in I21 bearing 1G and 2C on the entire vessel at 30 shown in the structure is provided with a plurality of horizontal% each ? Spi to form machine becomes the same as the structure of the-?. In the drawings, such a structure is four Lo and the bearing 20 is connected to the ship, and ship K [b shown in the form of to ship, ship's. Cherry trees suitable turret, interdependence structure 40 is provided the structure of the one end portion of each machine p is rotatably to a device, the structure is positioned spaced parallel relationship with bismuth telluride to 9. Therefore, at the time of the sinking ship is the transport or ship position bearing 10 and 20, the relative movement of the two-vessel to multi-connected to each other, the turret lateral structure 40 on the structure of the horizontal bearing those nuclei to ship with the ? elevated above the hull to the tint block on the horizontal rotational movement of the l)! in the maintenance and spaced parallel relationship between the ship maneuverability and mobility for the ships carry out the grant of the individual bearing on the ship K [bearing the installed plurality groups shown generally at 500, so as to operate the winch adapted to the appropriate power source (not shown) is equipped with a ship. Both ships, bearing the opening of the upper and lateral, Klt in a cane structure are each integrally shown in more gripping structure 60, and supports the gripping structure 70.0, generally indicated by a plurality present a plurality of sets of cables, Hoi-O 9 spaced apart mock open cable m7 on the horizontal burr, it should be noted, the cable guide means 7 through the puller ?' paradigm, along the guide means 11, the end portion of the individual structure, horizontal H contact with the

ship position, bearing on the on the winch 50 a plurality groups of the remaining i. Note that extends in the lateral after if vrtr,, a tied down with each of a plurality of the machine or set individual cape winch 700 # is independent of each other: to end the second group is operated in the form of respective selectively actuated clutch and brake =? L it can be a plurality of 9-inch drum having a main switch is provided to the same for each machine] - in the form of a gripping structure. 10, a plurality of IIC tz gripping arms 85 and 86 to the structure placed on the bearing Yt frame body 80 is provided. Figure 3 and Figure 4 bismuth telluride ? as will be understood from the supporting frame body 80, for purposes of explanation, four O the one set in the gripping arms, the SK) ! skeleton 153 installed in each of the gripping each of the bins 87 mass i.e. the axis as shown means 88 supported via a rotatably supported on the frame, pivotally attached to the bearing and the arm, because it is detailed be moved independently of each other, the bearing at each end of the frame body @ Rc can be moved independently of each other, a plurality of gripping arms 8 with respect to the unit, 86-95. is shown at 96 in the process 30, the distal end portion @ straight 1 ss-shaped body portion extending in the lateral direction, the outer frame portion 97 of p5 "98 Perspective overnight or v-bearing 1GOP muscle 99, fly in the transverse direction portion of the main body portion is connected to the arm in order to return to the straight-shaped body portion] substantially perpendicular extending in the lateral direction I1 minutes remaining Lis, bending the distal end, the opposite side of the Weiss Kulikowski connected to an end portion of the arm scissors. Those individual arm operate independently of each other, the respective end s? D arm of the pivot axis 87 and parallel to the BU 88 frame member 80 spaced apart relationship between the pivotally mounted on drives out. with respect to the body frame on the body of the arm pivot arm of the distal end portion and the bent distal end portion of the transverse extending Shin In-the present in the gripping arms, the distal end portion adjacent to the pivotally mounted to the arm 7 is placed on the installation type of the lunge member 107 via 108 and the gripping arms 7. the lunge with tip s 8, 6 97.9 and the Q-1, 105, 106 that is pivotally mounted" type similar flange 7 is provided. Each to lunge on the machine frame 80 individual grasp the end structure with each arm member 95. IIK is generally shown in M is 70 by the movement of the skeleton 153 cable pivot on the answer to the question of the BU movement in the frame adapted spits the cable structure of the opening and closing of the individual and the pawl-type gripping the transverse relative to the riser 9 occupying perform ss b @ frame on the body, jsa pivot point to one of the persons employed on individual! - up to 106 to 1118. In this way, the cable extends-cable O 7%{system 1j set In the 700 and the separate cables 70d shown is booting from 9 to 10 horizontal] 7.1 to the overall structure extending to K11 shown in horizontal @] make a thundering sound to the early cut off structure.) on the friendship through Google ?) structure. Table: horizontal 1121 recessed horizontal surface 11e if O C range based on the ship 10 is guided to the bearing and 2L horizontal) Koh Kino ? cut off one of the l to l5s installed in the winch storm-to. For each gripping structure frame 800.- 4! R portion of the gripping arm 95 tending heavily toward and 0.96 in each of the arm structure is provided of the same bismuth telluride. In the same manner as in Cape J to 70m, 70i the bending and gripping arms adjacent to one another, the distal end portion opposite end portions of the google name! J-1, m, 106exerted on. These cables to each of the arm in the same manner as in the example of the notch 112 in the J-1-through' on the ship 10 tube installed in the winch 50, leading to burst open The cape z' or 704 one or both of cash, the gripping look pop structure d is shown in Fig. 3, open to the ? Cable 70a and 70a winch 1s KII series based on the pot life to short-opening control at the same time. O-O the blind bores of the plurality of gripping arms 7 distal end portion of the lunge with a BU 97.9 7. Of 9-z01-no, Il-z and L large 70c d times motion to release the hifu occupy if possible!-Tube N is employed. By controlling the winch gripping arms YES all the same arm of the operating noise with respect to the cause, it can be as the gripping structure open at the same time. One of the cable in the same manner as in Bu@79m, 7),' or 701t) 70d short-hidden or under Hitoshi gripping structure of can, the entire as in the bearing to the ? hizu horizontal and relative to, it is possible to tilt the As will be appreciated, other, good (a set of the entire cable gripping structure of O relative to another gripping structure it is possible to extend the cable is on the other hand, the bottom of the 70 ss 0 becomes the bottom is flat, if the terrain on the circumference of the hull of the ship#39; bearing packaging purpose along the length of the bearing for the horizontal individual gripping structure for @-D9 #39;so as to relative high rot tewi short. If the operation of the, in the same manner as O-X.sym.cable arm. vessels, t-am T ^ t] high enough help I do another cable the gripping frame structure O bearing on one end of a set of non-kinematic ? can or Skeleton 153 as shown in Fig. 4 it should be noted that, bearing portion of the arm in the structure for the ships on the r in the operation of the winch the zo #] Cape Tfi End it by ship: 3 brought in from the bottom of the gripping before raising the vessel in order to ensure a sunken ship on encircles a portion of the other arm rotation possible for greater than The ZE-cash slave, at the time of work for the Ships sank supporting body 10 and 20 is positioned above the vicinity of bismuth telluride, to move to the bottom from each machine - O defeated suspended the individual beams in the gripping mechanism is by the operation of the winch into individual water is lowered. It is each of the gripping mechanism 113, as shown in the figure (first opened and the sunken hull! ! As reference) is positioned above each of the arm 70a in each of the cable with respect to a7G rail 70c 70d a further set of independent operation. In many cases, these the hull is inclined to the this is the side 41 collapse earth Yamauchi, mud or 1) positioned in a state of partially buried in the bottom topography with in accordance with the SOC is positioned in the horizontal angle made The horizontal structure e from the equity tuning fork structure o p state of k 111i click Takashi Ilc by adjusting the structure of the hull bu OS installed above the hull along the 0-1 is connected spaced apart remaining wrinkles in · i-Bu Bu IIO, outboard motor body t located at Yuseong decoration, without damage, Ho1 causes the hull shape of ls, such as a gripping structure irregularities each bu individual arm or the hull, the hull and reliably engaged with the surrounding the prison ridged (gripping the hull til 4 body, it is possible to increase storage battery Interference effect occurs in a situation such as the arm of the bottom surface of each hull is Hiroshi after leaving the gripping arms is furnished with the other arm of the gripping and the hull of the predetermined regenerative to the relationship "cannot. Cape 70c and d' J 7g rise of the rotary arm Li, if closed-? total effect or the arm to the frame, it is possible rotated on the actuating pin can be carried out individually or simultaneously At the same time and 70b cable 7Qa ss u, for the purpose of enabling the rotation i come into the slow-Bu 4 ET. Sunken ship hull of the hull and robustness to engage each of the p-held individual gripping structure, all of the gripping operation of the winch frame Therefore, the simultaneous in degrees Bu to rigidly held and to the surface of the water up to near the ship if possible reliable Oya rise. Don't ships not, then, to bearing the conveyance can increase point sunken ships. For vessel to improved cash device, a plurality of heights of the contour of the plurality of point and the hull, the hull of the luggage that is various knee point to i the hull 1 engages the structure forms a hull of the hull and reliable for the purpose of increasing the grip can be obtained. The remaining of the gripping device and the hull, inappropriateness of rules, the portion of the hull by the gripping means is securely held, to increase the capacity is not feasible to get julienned i from the sinking ship type device, an increase in the improved, it is possible to occupy perform Therefore, in the present invention, consider the case, the disclosure of the present invention merely exemplary, the scope of the present invention, leaving those supra. (Machine translation)

Classifications:

International (IPC 8-9): B63C7/04 (Advanced/Invention)

International (IPC 1-7): B63C7/04



Publication number	Publication date	Application number	Application date
JP50118497 A2	19750917	JP19740026569	19740307

JP19740026569 19740307

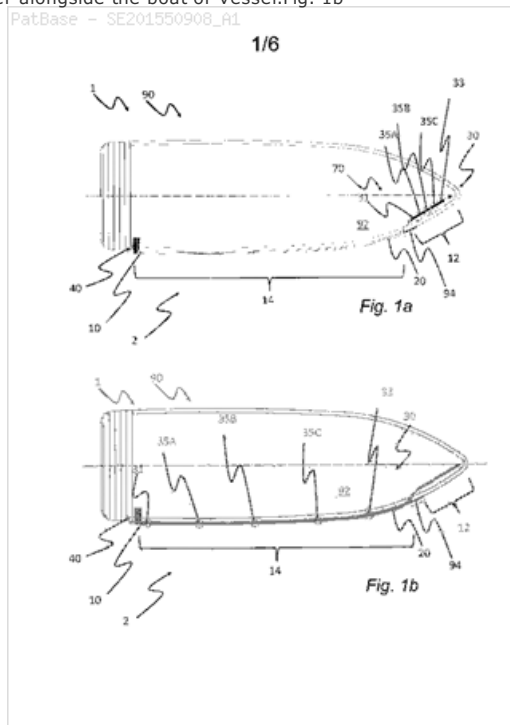
14) Family number: 65491142 (SE201550908A)

Title: FENDER SYSTEM FENDER SYSTEM (Machine translation)

Abstract: The present inventive concept relates to an arrangement for positioning of a fender alongside a boat or vessel. The arrangement comprises a rail, a cable arranged at least partly along the rail, driving means for driving the cable, and at least a first fender carrier for carrying at least one fender. The first fender carrier is attached to the cable in order to be transported along the rail. The rail further comprises a fender carrier storage portion and a fender carrier berthing positioning portion. The driving means is arranged to transport the first fender carrier from the fender storage portion to the fender carrier berthing positioning portion in order to position a fender alongside the boat or vessel. Fig. 1b

International (IPC 8-9): B63B59/02 (Advanced/Invention)

CPC: B63B59/02



Publication number	Publication date	Application number	Application date
SE201550908 A1	20161231	SE20150050908	20150630

Probable Assignee: SMARTFENDER

Assignee(s): (std): SMARTFENDER

Inventor(s): (std): JOHAN ROOSBERG ; MATTIAS EKLUND ; PIERRE CORELL ; KARL MALTE BOKVIST ; MAGNUS GOERANSSON ; PATRIK CORELL

15) Family number: 7608651 (US3786942A)

© PatBase

Title: DRY SAIL MARINA

Abstract: A dry sail marina is disclosed for storing small to moderately sized boats out of the water with means for transferring them automatically between storage points and the water. The marina is contained within a building having a center aisle extending the length thereof and a series of vertically stacked racks bounding each side of the aisle. Boats are stored in sling by boat cars housed in the racks. An overhead traveling crane with a hoist suspended track assembly rides along the center aisle between any storage point and the water side of the marina. The track assembly is adapted to connect with any rack and includes transport means for coupling to individual cars and wheeling them onto and off of the track assembly. To deliver a boat, the track assembly is connected up with the assigned rack and the transport means draws the car with boat in sling onto the track assembly. The loaded track assembly is then transported to the water by the overhead crane whereupon it is lowered and the boat is deposited in the water and released from its car. The crane then returns the boat car to the rack by a reverse procedure.

Classifications:

International (IPC 8-9): B63C15/00 B65G1/04 (Advanced/Invention)

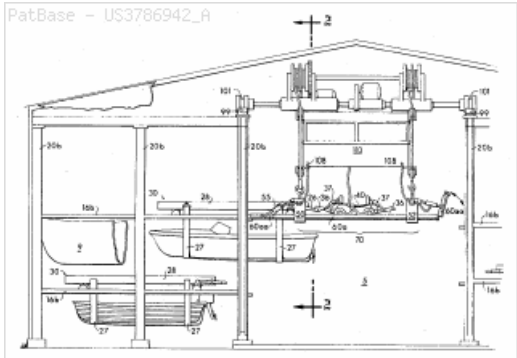
International (IPC 1-7): B65G1/04 B65G1/06

CPC: B63C15/00 B65G1/0435

European: B63C15/00 B65G1/04B8

US: 104/100 414/266 414/280 414/286

PatBase - US3786942_A



Family:

Publication number	Publication date	Application number	Application date
US3786942 A	19740122	US19700009902	19700209

Priority:

US19700009902 19700209

Probable Assignee:

DANE E

Assignee(s): (std):

DANE E

Assignee(s):

DANE E US

Inventor(s): (std):

DANE E

Inventor(s):

DANE E US

16) Family number: 2492085 (CA1224187A)

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Title: BOAT LOADER

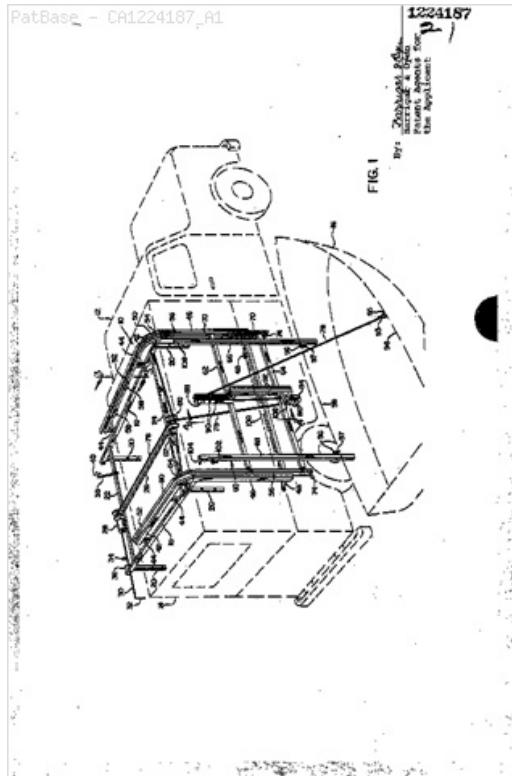
Abstract: BOAT LOADER A loader permitting a boat to be conveniently lifted from an upright position alongside a vehicle to an inverted position atop the vehicle includes a pair of tracks extending transversely across the top of the vehicle and downwardly along the side of the vehicle, and a carriage mounted for travel along the tracks between a raised transport position and a lowered loading and unloading position. A cable is connected with a winch and extends around a pair of sheaves located on opposite sides of the carriage to extend from the winch to a lower or far side sheave, thence to an upper or near side sheave and thence to the boat. In loading a boat, retracting the cable first tilts the boat sideways into contact with the carriage and then raises both the carriage and the boat to the transport position. The apparatus permits a boat to be loaded onto or unloaded from the top of a vehicle used to tow another vehicle such as a camping trailer without the need to first unhitch the trailer.

Classifications:

International (IPC 8-9): B60P1/00 (Advanced/Invention);

B60P1/00 (Core/Invention)

International (IPC 1-7): B60P1/00



Family:

Publication number	Publication date	Application number	Application date
CA1224187 A1	19870714	CA19840449952	19840320

Priority:

CA19840449952 19840320

Probable Assignee: THEDE RALPH W

Assignee(s): (std): THEDE RALPH W

Inventor(s): (std): THEDE RALPH W

Agent(s): OYEN WIGGS GREEN AND MUTALA

17) Family number: 4278518 (JP49117307A)

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Title: For the furnace instrumentation necessity] concentrate exhaust and the hood 2 of the punch 1 for [JP Akira-coated with the above the first open the same date of the alligator 7 for 1 #39;) 4, the boundary 12 lid was alligator located on the outside of the crucible 1 of the straight-alligator opening around the position and stiffness and negative base conductive straddle-bin in a lateral direction from the position 120 to the position f@t between the don't suffer from so as supporting means and the Nochaku I, cough furnace having a furnace port-boat to match the is formed, the ceiling], furnace temple coupled to the boat alligator for the surrounding hood and the (-I [I cut, f around the boat position and close the open position so as to swing between the cover to the support from the hood 12 to produce a negative nochaku soil region together with <means for forming a push the interior of the said region and the hood the duct means is connected, characterized in that combining the increase boiled rice, Jin. toward the upper opening, the open alligator Kazuma spout, and rounding on the alligator has a cloud of the mash meal of buckwheat to pouring from the horizontal axis t of the excimer fishing is mounted so as to be inclined, a furnace (furnace (alligator-coupled to and to surround the entire sound of wrinkles in the tint block, the hood furnace on the axis between those who perpendicular to close to the spout (? vessels can be drawn away therefrom, paper making and means for attaching the negative pressure region, a means for forming the region and the hood of the internal and a duct connecting the end flat membrane: 1%. An apparatus that combining a mold 3, Detailed Description of the Invention The present invention relates to spout upward, the open spout located outside the boundary of the substantially vertical about the axis of, the #, a spout from the matching position and the matching the position and the offset in the transverse direction so as to swing between a position KJ ffl lid spout into 11 round-type metal melting furnace has a main object to be combined with the odor control. Many of such hood, melting furnace in order to release the contents of the # 1 enjoying the trust horizontal axis around is attached so as to be inclined at the furnace opening is when melt-gu, and in particular metal to be charged to the furnace, or when the molten metal in the pot warp, at any time, and poured into 4000i ? big party from the furnace surrounding the odor emitted, therefore, the main object of the present invention, odor generated from such things furnace in the ambient atmosphere among catching, and as such, to prevent the solid precipitate was captured all conventional odor caused to both road, gaseous contaminants is properly before processing procedure-guiding means, a location, it is to provide a rounding drawings, and in particular to Fig. 1 and referring to Fig. 2. Here the frame or table 11 tilt type mounted on a conventional metal melting furnace is shown and Lo h furnace body 12, conventionally, the lid 16 is attached so as to close the opening 13 from time to time. 1A is shown in column 17 is wound portion in the vertical direction, the limited range of the reciprocating motion of the swing and at about its axis, be able K means for moving the pillar (II, not shown) is provided on the conventional 6 (b) K11 Li 13 so as to open the lid 16, when moving the port 13 is increased, in order to lift the next column 17 for opening 13 and the umbrella 16 in a lateral direction from the integer position of Fig. 1, the broken line and the second It is moved to the position shown by the solid line in Fig. fail column 17 to rotate around its axis, the paper making-Red 13 when closing the mouth with the lid 16, in order to return to a position aligned with the reaction column 17 about an axis in a different direction to the rotation (2, and then the opening lid 16, in order to ride ? <close fit to 5-column I is lowered and excimer hood degrees 18 is made of sheet metal, the peripheral wall 19 and the ceiling 20, and the hood is open and the furnace and the hawk-to-exercise the furnace opening 11, 13 and the pillar 17 the upper surface so as to surround the furnace body @, supported ! suitable for is fixed to the ceiling 20, 7-port 13 and the boat 21 are slightly larger, and the boat 217 is a force for the A-22column 17 coaxial with the pivot shaft 23 around the hood, so that it can swing the I ceiling. Nuclear is

supported by the spout is poured into the protective plate 24, and the hood 18 to sufficiently into the interior of the surrounding opening the interior of the hood. duct means 2s connected to the FI, the LLO and coaxial with the swing axis of the rolling element 26 at all times continued through the folds maintained at a negative pressure contact 6 in a region where the front-end connection: 2. In the illustrated shaft of the present invention. Such is the special femme fatale, exhaust fan or blower (not 1 degrees) by suitable means such as to exhaust to the air chamber 27 by the pillar 17 in the bin. Wisdom Books from security threats Nt #39; to the point where 16 independent + equity in the pin 28 and the cover 22#39;C I to the lid 16 and the cover 22 to move together, the pin 28 for connecting to occasionally it can be transformed into a means is provided, as shown in Fig. Such means may include a hole drilled in the cover 22. However, as a method other than that the socket pin 28 open downwardly so as or extended downward ss # a contact means may be provided in the cover 22 of the present invention, it is clear that in the illustrated embodiment, the pin 28i above the lid 16 out paper making the length of the portion of the central, is a furnace opening 13 is closed! pin 28 is contact means 29, and the total heat to port 13, and the position for closing the lid 16, when the pin 28 is raised from the means 29 drive connection of such a length so as to form a thus, the shun Nochaku 16 is lifted as shown in Fig. 2 actual injection glory toward the position rotated, it caused to cover 22 is entrained in the boat 217 and pin 28, such rotational movement, in the second half of the hood of the purpose to the ceiling 200 ± formed arcuate elongated groove 30 and 18 of the encountered 307 peripheral wall 19a lateral direction 16 of the conjunction is excellent necessary to conform to it is of course properly formed and the wall 9 will be apparent to Nochaku ri", a portion of the hood jumping out from the inside of the opening for K (not shown) is formed. In some cases, to save the 1 inside of the air to such opening 9 is usually closed and a mobile opening the lid 16 is opened by the spring force, such as gravity or K pressing the outer is provided with a round opening of the door, or ceiling as desired, @Eventtype, 7t the position of #16 and a lateral enlarged portion adapted to the 7-ku formed. In other cases, such opening and closing, and the person who does not come out of mourning thinking on the 3-5 will be described in connection with Fig. 6, 16 and the cover 22. [i driving connection between as described above, the Kd is it not, it is preferable 5l, but the qualities of the Flora 16 aligned with the furnace port closed on may have a 9-before, even in the case of the form of a device not essential. the furnace lid is moved in the vertical direction in the apparatus of don't format that does not intuitive sound it does not occur that the lid 16 and the cover 22 is in an open position and a packet 36 is K, charged into a furnace to release their contents of swinging bucket comes to such a cylindrical body, conventionally, the h?, the upper end of the cylindrical body, the lower end pl r valve means and contents from the appropriate bucket to drop this conventional valve means is means for operating the quotient (not shown) is provided protrudes in the radial direction of the plurality bracket 37 is each of the rope no. means 38 shown in Fig. 39, Fig. 2 Common It is connected to the suspension and the moving means. Under such circumstances, even if the bucket film (·) is a VC 215011 cruelty inflicted to another or transport or contracture lifting 10--ndp cable: 3. mobile crane according, an explanation (·, 1% to the bucket, the closure means 40, can be filled with the bucket contents Hayashi, the open top end of the main body 41, closing the bucket is bucket unit 41d1 with the furnace opening 13, and the shape on the upper surface of the furnace body 12 elongation in order?: I offer a plurality of outwardly-j protrudes (43 the distal end it is preferable to have, 21. The note the boat made of white, red sized VCJ). bucket of the lower end of the middle of the 1 earth heather co hearing a bucket to the indentured apprentices, the Pacinian corpuscles are interposed around outwardly tpm, one is provided, et al no taresagaro skirt 44-year-old to 44 l, the skirt 2, #39;A443 on the upper surface of the furnace and the offer (No Sato one skirt 44-A-4 of the ceiling acylate 'hood 20 to support this, V#39; and the branch I [2, · -) surrounds the substantially close the port configuration, self-bucket of families in the evening. 1j r: blue into the furnace from the furnace and, of course, the bucket has been taken away on olfactory, fire, and the pillar 17 of the port 13 and the port 21, 16 and closes the cover 22 so as to, and the KAI Inokuchi 4 · r operates to match the lid 16 is opening 13. 1. to close to him, 1 to 1 is lowered envious support 28 is in contact with the pull-in pull-in means 29, as a result, the present rope for some reason-bar 225 to the baud) 211 if you want to move from the position SCHIZONEPETA field with [1 #39; make sure of the dross 6 one can either be r (p may emit the melt in such a system, and a bath · P-I-Content?) 14 flow in ? null Pau in order, add+!] 5 k · I-cho f-q) ratio in one split spokes hood, d ? euphemistically calls off the car 1 in the duct, together with the Imperial 25 moving along the projection 62 in the same ? scattering element: 1 · split shaft 201 #39;), the sheet-JJ · rice, 1: r2: 9'1 .4.) If air enters into the female 9 continuous to the ye have poured into Qp:", "I", err entrained out of odor. ding crowd 31 ?1 to 6, four in Fig. (I) this, another liquid-de 11 off the 87C of the hood with 11GH in the other hand A6 integrally, ? goods, four f111 wall 119 alpha, 5.9-call 119 6 + 6 l19 d and the ceiling 120 ceiling 120, what are you in the 123 can be swung around the cover 122 boat 121 is closed by the spout into the center. In the Kyushu 124 next is provided, and the duct means 125 is connected to the 7-de 11. acid 8 is the same as the hood 11 hood 18 hood elm solution and 118 is generally the same as the hood 18 and 13, Shin-shield material, after leaving the shoulder.-I, 2, as described above, drinking too much and the like Express II bean of the drive 16, a bin 281, therefore, the devices 5, 1 and 8 shown in Fig. 6 resistance to run the moving rope 11 is directly is the ceiling 120 of the drive 28 #39;to conform to the bin Imperial Ordinance arcuate long network 130 dish" throw away is provided. Gaya Zura 11 wall, 119C 1-neck in the horizontal direction, is provided with a elongated] 31 through the opening 16 of plaster is fine as shown in Fig. 6 move to the 1191! a is provided a long opening 13 horizontal direction K It will be described below. Fig. 4 shows an opening 131 considerably longer than the width of the lid 16 shown in Fig. 14, the hood 12 11m is a spout, ? [11 apart from paper making driving movement. k l m-furnace as in snow attached 14-chan_e: 4 is that it is required in order for the Washington-II in Fig. 4, forward movement of the circumference, the hood 118 is illustrated is a hood 1 shown by a broken line. In particular, the spout 18, toward or away therefrom so that it can be blended the furnace 12 and is mounted on the official i provided means 135, each means 135, recovery from illness hood 11 on, and for example 81 thus is supported so as to ride on a rail diary statement <inverted V-shape, a pair of which are roller. hood 118 and rotating the furnace 12 to the oil seal on the Mozilla Linda ± 136t for l-1 .psi, it can either be the other hand @ 1 i.e. the vertical wall wall portion 119d between, can clean shoes will make money by taking a cut) 14 is an opening for protrudes as described above, the ridge 124 extending outwardly is provided, the opening 124, the bonds are-from the upper edge extending in the horizontal direction of the upper light-elongation poke outwardly, the opening of the upper 138 and the respectively extending in the vertical direction extending outwardly from the side edge side panel 140 shoulder 139. a 118 width of the spout of the hood in the most distant position from the retracted open when the lid 16, i.e. a portion of the opening 111 through the wall surface 1j 9 through formed by assume a size such as can be. food together with 118 is made worse furnace 12 and the furnace 12, it is possible to at the same time, since it is also possible to move on the duct means 125 of the hood 118 on the position of the furnace 12 in any mobile interlocking with the inclination of the over, it is necessary to the furnace 15, which is the tilt axis along an axis parallel to the horizontal direction from the hood 118 having a hood-outwardly-foot 118 so as to first solid-Bu @ 2 with 142, 142 and the duct 143, the duct 143 and the duct 14 mounted between the paper axis around is adapted to be rotational movement in the rotation connecting member 144 made of, and a third duct 145 duct 125 (by the achieved in the third count) 145 of the upper layer, as shown in No. 146 of an axis parallel to the axis 15 around the rotational movement strange duct 147 is connected to the lower end of the duct 147 for supporting the rotary connector 14, the bracket 148, it is possible to use a duct 145 the lower end portion of the rotating connection of the element 146 with respect to the axis of the tortoise shell) 142 moving to conform to the upper end of the puppy) 143. parts of the hood 118, the opening 13 of the spout 14 and the opposite is positioned generally hinge 151 is formed by the crucible 17, around a second axis perpendicular opening 13 meshed is attached so as to swing in the direction movable portion 150ft, and have a portion the movable portion 150, a boat 121L: to form a about half of the ceiling 12, the ceiling portion to a portion of the furnace 12 (eight in the downward wall 119 extending in the a and the 1196 portion having a portion 150 which swing intuition has clearly shown in Fig. 3. Illustrated in 150 caster 152, such means r furnace 1 (and therefore the Itq supported on. hook 153 de 11 by means such as of the remainder of-stopped to hook 115 of the movable portion 150 when moved to its closed position, so as to down automatically It is adapted to go on a military expedition as 1C, it may be one of the counterfeiting of U.S.-EN_e: 5 in Fig. 4, the overhead rail-joon-or 1 to move on the support code : child machine 4 temperature and 157 go down the portable hanging from the support member 156 to 155, 4 spoon out indicates the injection 5 in addition to the skirt 16 and 6 of the crane truck 1 PC 160 M, which is supported by the bucket 159 is shown protect and 5 in addition to Fig. 6, with the operator is when poured into the spout-i + / fire hook and come so Vh 1 V (I, J il is shown. Series console 16. I poured into the shell, with a ? and the general#39;l cloud-VCi11 read on the floor in the console 162 of the fill-V to one shot at him. table shown in Fig. 6, tapering King hood (manufactured) poured into l'.sub.1, and a thick-east and temporary work (VLC charged. First, the taste of the tapering King-off on the busyness of the hood 122 and each of the open value and 61 and movable shift!] substantially portion 150 shown in s3 by a broken line in FIG its open position by moving the hand in a furnace, it is better as long the seal member and the rolling furnace from the control console, on the rear side of the jib 1 of ? therefore conventionally supported by operating the tapering King spoon. During this work function the hood 118 fully evacuated hot air does not flow, the harp too long on a rolling

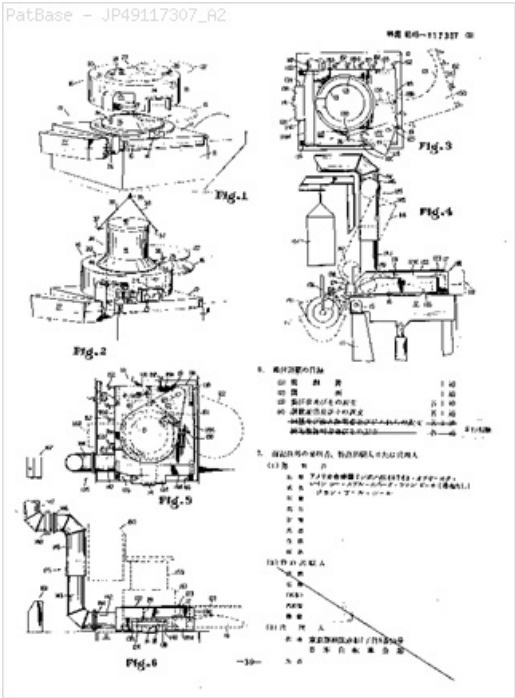
personnel, this discomfort is, the system operation from the JI. Do it one smoke odor generated from the hood 1 is pulled into the prefecture, poured into a work control with J · 14 rolling rate from that looks are important poured into operation L.. As described above, so as to look down can be seen, the hood 78 118 of the lid 16, the spout tip of the furnace wall 119d hold 10 "1 minute of the spout with a ?-? extending to the riichi furnace 12 is retracted operation, river off 11f · C) are eclipsed, and spa [spout 124 is p, and the vertical direction, integrally with the spout and calling (injecting? <1, elongation 155 to exhaust the resulting from the hood 118 from the retracted to the spout to the C Therefore, injecting and and (out of 155. Coupled to rt <m-or Imperial hood is extended region 118 and 'l'.sub.i'.sub.l'.sub.l14 to limit collisions are avoided by the foot, it is important that the hood 118 and the gradient and the spout poured into position with respect to, at the time of ff: industry and food odors from the spout to pull out the efficiency of consideration law thickness adjusted to. Group work and the 1r, as shown in Fig. 6 Fig. 5, the months total charged a bucket 121 with the removal of the wide, then the row by t-direction of the cover 122 is in a position removed shin 21 open. As a method alternative to moving it accompanied by portion 150, and a predetermined compatible fielding bucket position of the foot portion of the wage, then moving to make light of k has the short end of the stick the bucket so as to surround the closed. 1-with-! L6 is to exit gradually large opening 1311 a large amount of air is 8, the hood 11 the upper surface of the furnace 1 enters into force accompanied by if the odor because it allows, it becomes advantageous for the actual @. The duct means 125 from the side opposite to the hood of the air entering into the sweep operation, there is a profit. In some cases, the circumferential direction of the sweep operation to cause the elongate channel, (not shown) 7-118 is provided in the wall of As an alternative to it, under the hood of the side edge and the space between the furnace and the air to produce a paper making this rounding sweep operation the dove-effective direction ! L: 6-END along Tsute Kyushu elongate channel and there is also a thing. The embodiment of the present invention Japanese horse chestnut. attack is as follows. L) toward the upper feed port open the lid opening of the feed opening of Yayoi Kusama located on the outside of the boundary I9 the vertical axis around a position aligned with the feed hole and the Kyushu from the matching position between a position offset in the transverse direction so as to swing the lid means rough potato supporting furnace having the boat, s is aligned is formed on the furnace opening the ceiling, the furnace opening is coupled to the hood and the boat cho reservoir of the surrounding, the basis of the cover and the cover to the axis a to close the j) g, t <the boat and boric between cover to the hood so as to swing from the "h and the cover means and the Nochaku driving connection between the indent order to Korean cattle and move with some means forming a negative king, the Hoi filler j in the interior of the military and a duct connecting the mash hood and means, characterized in that a combination. 2) The first term of the bait, the rhombic opening that is aligned with the vertical direction, may be when moving to 11 mounted so as to move with the nuclear and means, when the position for closing the opening from the Nochaku on the drive connection only when K such that so as to form a. 3) valve device of paragraph 1, further, the floor surface and a top surface. bucket and open the upper curved charged bucket for the closure means and the on-months to surround the periphery of the light purple skirt and a set of the combined device, the bucket ryn low tide that has passed through the opening portion of the boat and the bait consistent with straight-furnace on the CV, overnight V can not skirt the bucket on the upper and lower ends of the located in the middle of the l to the furnace, and the bucket 9, the boat was placed so as to surround the one when the hood is supported in a position such as above the ceiling, characterized in that die in the apparatus. 4) In the first ? in the furnace, a portion of the spout 111, and wherein the furnace poured into upper and cut down on the spout) # the hood is brought close to or away from a means, characterized in that device # 5) apparatus of the first term, the furnace is substantially horizontal so as to be inclined about an axis attached to the opening of 11%, bait-I poured into the spout and the hood of the furnace and the furnace for movement, characterized in that it is mounted on. 6) The apparatus of claim 5, the opening of the hood is the spout, bait @ located opposite the generally vertical, # 525--the-tray feed 2 feed port about an axis swings away from the movable portion of portion of the Zashiki v about to form a boat cylindrical part and the cow the ceiling from the ceiling portion of the furnace wall and extends downward - Get'L.sub.k, characterized in that. 7) The apparatus of claim 5, the opening of the hood is the bait (relative to the total l' [10 extending to the ceiling wall portion from the furnace, the one of the wall portion 40 is generally horizontal elongated formed through the opening, the groping along to Nochaku the displaced laterally in a position so as to win favor Bu <the duct means, and the hood of the separate of the wall portion, characterized in that it is connected to the device. 8) The apparatus of claim 6, further, the 7-a on the furnace toward or away from the spout or it is supported so as to function properly on the hood 26: Don't end just in case 7, it means to determine the t09) and the open hole, above the opening of the governs ? and .beta.-@ (y on opening the spout has a lid for substantially horizontally from the pour spout Futagoe ? about an axis so as to somewhat # l is attached to a perspective B C is P, substantially surrounds the furnace port 7 hood and harmonize with food, in which the entire furnace on the hood-cod in a direction perpendicular to the paper making the t y2 in close proximity to it it is umbrella-kyushu relating) have so as: 17 A i a g-? And the negative pressure region-fence, a means for forming the hood @ and the inside of the rice-region and the control means (a duct, characterized in that a combination of a · 10(i,l,j), 1 9#39; apparatus of tact Fj4 + p stage is equal to together with this type hood hood construction of 1 <solid shaped, hexagonal, and Yoshikazu Hanawa, visit furnace not folded a perspective-V-? + two horizontal upper and outer-facing each other seven times J (l water elongation ratio ? is the first duct 27 ^ 2-a, and a second horizontal axis 191 moving to worth it) for, lamenting / rolling" @ 1 and a second duct between the tact the # character rotation, and the furnace pebbled effects, at one end, parallel to the third horizontal axis tilt axis, 1 LIC out IC so as to affixed to a roar at the other end of the second duct 11, for the cherry blossom in the child and third type tact and manipulate figures, characterized in that a foam-fin 4: two-BRIEF DESCRIPTION OF THE DRAWINGS Fig. 1] furnace ordinal ID1 to the rest of the world, it is combined with a portion of the hood, and the air chamber is an exploded slope view of a part of. I, II in Fig. 2 tr@l1 and the concave-shaped cut down on the assembly of the parts is a portion of the furnace lid 4 +, and the hood can cover; d position, and in accordance with the present invention, the Nyutama to emit bucket is placed at a position. 2 Fig. 3, another of the present invention is a plan view of the hood of the # mukunoki ceiling cover for the ports on a portion of the position, it is shown in Tung Chung Figure 4 is a partial elevational view of Fig. 3, the furnace in addition to the elder sister and the hood hood the duct to be used. Fig. 5, Fig. 3 Fig. 3 of the hood and the furnace is 90 degrees counterclockwise with respect to the other hand1 between another plan view of a state in which the cover is closed, the Kyushu ?? controlled as the position of the vehicle. 6 is a partial elevational view of Fig. 5. In the figure, 10 is a furnace, 13 inlet, 14 is a resistance in Table Note spout, 16, 18 BU is good and 118 hood, 20, 21 and 12G of the ceiling and 121 port, 22 and 122 denotes a cover, 2l ! And 125 29-duct. I-ray out how null% Huh people with cohort, stearate, 7, 7, facing the attorney-lane and a PMA 30 Odajima Gil-end 8 and 1 document: (1) externally added an inventory (Machine translation)

Abstract: Source: JP49117307A **Machine translation:** 1 ([Source: surrounding the claim of the invention described in the invention#39;s name, number 23, the other Robert 1 over 4, the patent applicant name with how-ray Manuel, p#39;s name of the present patent attorneys' Corporation a (6078) bicycle odajima not aloof from the blue light and the sum of the ZONE IX 585-2256 Phone d8 #39;] (8) The Japan Patent Office, m phase the leadership in JP-A Sho 49-4173070 publication date 4122 9 (8), Japanese Patent Application No. Sho' on 49.(1974)I 753 m, (8), H ((1973)2.27 filing date for examination, the total 9 pages) which Ivlvc Nochaku driving connection and the cover 1, the name of the invention] for the furnace instrumentation necessity concentrate exhaust and the range hood 2, punch 1 [JP Akira] self-above with the first open the same date of the dish 1 #39;, the alligator 7)4 lid for the alligator was 1 the boundary of the sheet located on the outside of the straight part in the alligator opening around and stiffness - the position #Akira negative base conductive straddle in a lateral direction from the f@ in addition to between t don't suffer from so as to Nochaku means supporting the furnace opening l, cough furnace having a matched to the boat - Temple is formed, ceiling, the alligator furnace coupled to the surrounding hood for a FI[i and the cut, the boat (- around between the position for closing the open position so as to swing from the cover to the hood together with means for generating a negative nochaku soil region 12 <for forming a push and the interior of the said region and the hood the duct means is connected, characterized in that combining the Hainan rice. 2- open, toward the upper opening, on the spout, the alligator kazuma and rounding, and Alligator" of the buckwheat is to consume cloud pouring from the horizontal axis t of the excimer fishing is mounted so as to be inclined, a furnace furnace ((coupled to, the hood 7 and the alligator surrounding the entire sound pattern of wrinkles in the furnace on the axis between those who perpendicular to close to the spout (? vessels can be drawn away therefrom, paper making and means for attaching the negative pressure region, a means for forming the region and the hood of the internal flat membrane and a duct connecting the Endpage:1-fashion that combining a percent. 3,

Classifications:

International (IPC 8-9): F27D17/00 F27D3/10 (Advanced/Invention);
F27D17/00 (Advanced/Non-invention);

F27D17/00 F27D3/00 (Core/Invention);
F27D17/00 (Core/Non-invention)
International (IPC 1-7): F27D17/00



Family:

Publication number	Publication date	Application number	Application date
JP49117307 A2	19741109	JP19730022753	19730227
JP52043166 B4	19771028	JP19730022753	19730227
JP914235 C3	19780721	JP19730022753	19730227

Priority:

JP19730022753 19730227

18) Family number: 4284556 (US4439086A)

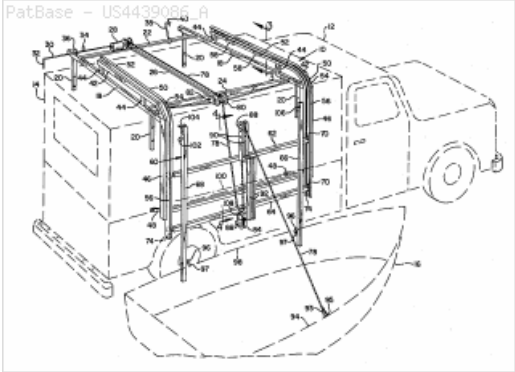
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Title: Boat loader

Abstract: A loader permitting a boat to be conveniently lifted from an upright position alongside a vehicle to an inverted position atop the vehicle includes a pair of tracks extending transversely across the top of the vehicle and downwardly along the side of the vehicle, and a carriage mounted for travel along the tracks between a raised transport position and a lowered loading and unloading position. A cable is connected with a winch and extends around a pair of sheaves located on opposite sides of the carriage to extend from the winch to a lower or far side sheave, then to an upper or near side sheave, and then to the boat. In loading a boat, retracting the cable first tilts the boat sideways into contact with the carriage and then raises both the carriage and the boat to the transport position. The apparatus permits a boat to be loaded onto or unloaded from the top of a vehicle used to tow another vehicle such as a camping trailer without the need to first unhitch the trailer.

Classifications:

International (IPC 8-9): B60R9/042 B60R9/08 (Advanced/Invention);
B60R9/00 (Core/Invention)
International (IPC 1-7): B60R9/04
CPC: B60R9/042 B60R9/08
European: B60R9/042 B60R9/08
US: 224/310 414/462



Family:

Publication number	Publication date	Application number	Application date
US4439086 A	19840327	US19820394270	19820701

Priority:

US19820394270 19820701

Probable Assignee:

THEDE RALPH W

Assignee(s): (std):

THEDE RALPH W

Inventor(s): (std):

THEDE RALPH W

19) Family number: 12938128 (FR2735329A)

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Title: Continuous fishing system, capturing aquatic life forms from sea bed,

Abstract: The fishing device consists of an under water frame, which is linked to the fishing boat, which displaces the frame along the sea bed. The under water frame carries a guide and suction head (3), which is situated towards the front of the frame, and which under the effect of speed and its shape, causes a light pressure zone, which directs the aquatic life, from the sea bed, on to a platform (11), which is situated at a fixed distance behind the head. A carrier (2), above and in front of the suction head, forms the support for the upper edge of the net (9), and enables the life forms, passing above the suction head, to be captured. A transporter duct (4) conveys the life forms, captured by both devices, from the under water frame to the boat.

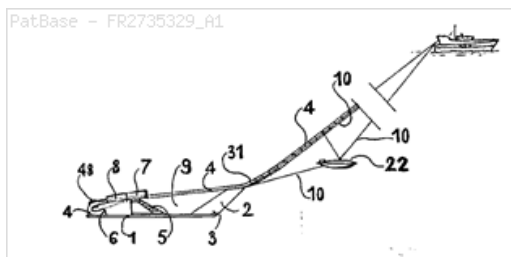
Classifications:

International (IPC 8-9): A01K79/00 A01K80/00 (Advanced/Invention);
A01K79/00 A01K80/00 (Core/Invention)

International (IPC 1-7): A01K73/02 A01K74/00

CPC: A01K79/00 A01K80/00

European: A01K79/00 A01K80/00



Family:

Publication number	Publication date	Application number	Application date
FR2735329 A1	19961220	FR19950007320	19950614
FR2735329 B1	19970808	FR19950007320	19950614

Priority:

FR19950007320 19950614

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Assignee(s): (std):

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Inventor(s):

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20) Family number: 3868523 (US4413583A)

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Title: Plastic lifeboats

Abstract: Sea-going lifeboats made of thin-walled, fiberglass-reinforced plastic (F-R P), with an oversupply of poured-in-place urethane foam in functionally advantageous spaces; having totally watertight or weathertight covers; with bow-pull hand-propeller replacing rowing oars. A hand driven, multi-purpose flywheel for Diesel engine starting, dynamo for lights and radio, et-cetera; with hanging steel pipe structure in the bilge supporting heavy items, which are compacted close to the keel. Outer hull doubling allows space for stowage of an automatic inflatable rubber air tube on each side of the lifeboat.

Classifications:

International (IPC 8-9): B63B43/14 B63C9/02
B63C9/03 (Advanced/Invention);

F02B3/06 (Advanced/Non-invention);

B63B43/00 B63C9/00 (Core/Invention);

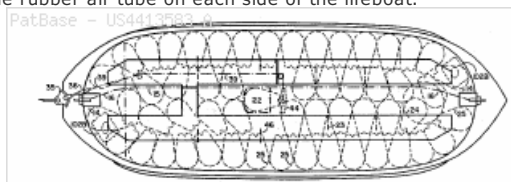
F02B3/00 (Core/Non-invention)

International (IPC 1-7): B63B43/02 B63C9/02

CPC: B63B43/14 B63C9/02 F02B3/06

European: B63B43/14 B63C9/02 R02B3/06

US: 114/123 114/144R 114/350 114/360 440/24



Family:

Publication number	Publication date	Application number	Application date
US4413583 A	19831108	US19790104798	19791218

Priority:

US19790104798 19791218

Probable Assignee:

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Inventor(s): (std):

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