

Search query (7): STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower)) and (harvest* or eliminat* or remov* or exterminat* or destruct*) and (process* or method or unit or apparatus or equipment or system or device) and cut*) and PD<20160707 and IC=(A01D44)
Results: 13

Search history

Search STAC=((hyacinth* or eichhornia crassipes or water lily or bora flower or aquatic invasive plant)) (Results 5993)
 1:
 Search STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower))) and PD<20160707 (Results 3538)
 2:
 Search STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower))) and PD<20160707 and IC=(A01D44) (Results 35)
 3:
 Search STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower)) and (harvest* or eliminat* or remove or exterminat*)) and PD<20160707 and IC=(A01D44) (Results 19)
 4:
 Search STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower)) and (harvest* or eliminat* or remov* or exterminat* or destruct*) and (process* or method or unit or apparatus or equipment or system)) and PD<20160707 and IC=(A01D44) (Results 15)
 5:
 Search STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower)) and (harvest* or eliminat* or remov* or exterminat* or destruct*) and (process* or method or unit or apparatus or equipment or system or device) and dry*) and PD<20160707 and IC=(A01D44) (Results 3)
 6:
 Search STAC=((hyacinth* or eichhornia crassipes) or (water lily) or (bora flower)) and (harvest* or eliminat* or remov* or exterminat* or destruct*) and (process* or method or unit or apparatus or equipment or system or device) and cut*) and PD<20160707 and IC=(A01D44) (Results 13)
 7:

1) Family number: 62514055 (CN205266265U)

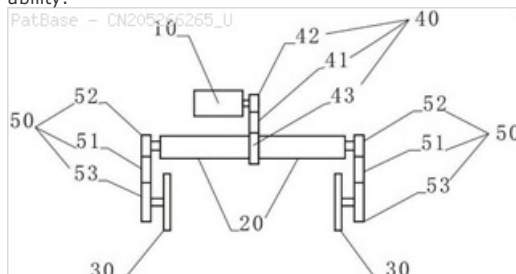
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Title: A CUTTING DEVICE FOR WATER HYACINTH HARVESTING SHIP

Abstract: The utility model discloses a cutting device for water hyacinth harvesting ship for water hyacinth in the dive cutting harvesting ship direction of advance, vertically cut the wheel including two rotating tool holder, hydraulic motor and two, hydraulic motor's output shaft is connected through a drive mechanism to two rotating tool holder's looks near -end, and two rotating tool holder's looks distal end is connected through the 2nd drive mechanism respectively and is vertically cut the wheel, and every rotating tool holder perpendicular to harvesting ship direction of advance respectively extends and sets up. The utility model discloses a synchronous syntropys of two rotating tool holder of hydraulic motor simultaneous control are rotated and are cut and smash the water hyacinth of aquatic for here and no longer, the water hyacinth withers stands upright fully, and simultaneously the water hyacinth that vertically cuts two rotating tool holder the place ahead scope edges of wheel pair through both sides vertically cuts, avoids water hyacinth and other pasture and water to grow overstockedly and be difficult to and gather, thereby helps the utility model discloses harvesting ship is smooth -going to go forward and reaps the collection water hyacinth smoothly, improves the bleaching ability.

Classifications:

International (IPC 8-9): A01D44/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN205266265 U	20160601	CN201620021828U	20160111

Priority:

CN201620021828U 20160111

Probable Assignee:

ZHANG JINZU

Assignee(s): (std):

ZHANG JINZU

Assignee(s):

ZHANG JIN FOOT

Inventor(s): (std):

ZHANG JINZU

2) Family number: 43630070 (GB2472183A)

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Title: PROCESSING AQUATIC PLANT MATERIAL

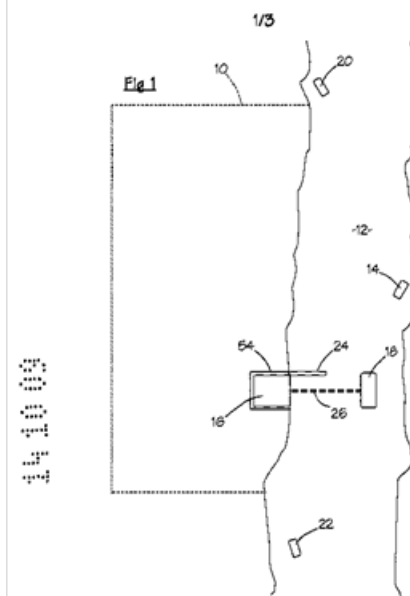
Abstract: A riverside farm 10 is furnished with a system for processing water hyacinth or other plants infesting the river 12, which system comprises harvesting barges 14, 18 and 20 and an anaerobic digester 16. The barges 14, 18 and 20 are driven up and down and across the river 12 and harvest the water hyacinth, so keeping the river 12 clear. The harvested plant material is transported (directly or by a mother barge 22 or other means) to the anaerobic digester 16 located in a lagoon 54. This digests the harvested plant material to produce biogas, compost and water for use on the farm 10.

Classifications:

International (IPC 8-9): A01D44/00 C10L3/06 (Advanced/Invention)

CPC: A01D44/00 C10L3/08 C10L3/06 Y02E50/30

European: A01D44/00 C10L3/08 Y02E50/34B

**Family:**

Publication number	Publication date	Application number	Application date
GB200909990 A0	20090722	GB20090009990	20090609
GB2472183 A1	20110202	GB20090009990	20090609

Priority:

GB20090009990 20090609

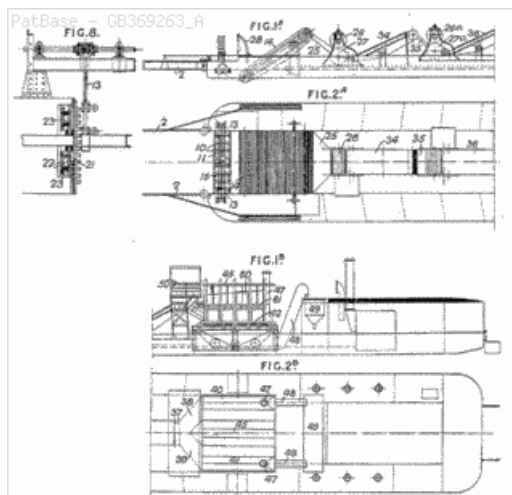
Probable Assignee: HYDROHARVEST INT LTD**Assignee(s):** (std): HYDROHARVEST INT LTD ; HYDROHARVEST INTERNAT LTD**Assignee(s):** HYDROHARVEST INTERNATIONAL LIMITED**Inventor(s):** (std): GOWER ALISTER ; COLTON THERESA ELIZABETH ; COLTON JOHN HENRY EDWARD**Inventor(s):** ALISTER GOWER ; THERESA ELIZABETH COLTON ; JOHN HENRY EDWARD COLTON**3) Family number: 19048070** (GB369263A)

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Title: A collector and destructor for water hyacinth

Abstract: 36315. [Classes 5 (i), 6 (i), and 6 (iii).] Apparatus for the collection and destruction of water hyacinth and like weeds comprises means to collect, cut up and then dry the weed, the drying being effected in stages, the dried weed being stored and used as a fuel alone or in conjunction with coal to raise steam by which the said cutting and drying means are actuated. Slotted, adjustable arms 2 hinged to the U-shaped forward part of a shallow-draught barge direct the weed to rotary cutters 10 detachably mounted on a shaft 11 which can be raised or lowered by adjusting gear 13. The ends 15 of the cutters 10 which project a short distance above the surface of the water, are bent at right-angles so that the weed is cut longitudinally and is partially split laterally. The shaft 11 passes through watertight doors 21 on the hull of the boat, the slides 22 of the doors being held in position by pressure springs 23. The weed passes from the cutters 10 by conveyers 14, 34, 36, 48, shoots 25, 35, 37 and pressing rollers 26, 27, 26a, 27a to electric furnaces 40, 41. The conveyer platform 14 is of light section channel iron and is pivoted to rolled steel stanchions; the lower end of the conveyer may be raised by means of davits 28. The moving portions of the conveyer comprise chains driven by pinions at the highest point, idler pinions being provided along the length of the conveyer: the chains are adjusted by slides and eccentric rollers. The pressure of the rollers 26, 27, 26a, 27a is adjustable by weight blocks, the upper rollers being sprung in slides and the lower rollers driven so that a bouncing motion is imparted to the upper rollers; scraper arms are attached. The shoot 37 is branched at 38, 39 and controlled by doors whereby the weed is directed into drying furnaces 40, 41 through which it passes on composition belts 42, driven by a large or small winch according as one or both furnaces are in use. A platform 45 is located between the furnaces. The moisture from the weed passes through a perforated firebrick arch 61 to a flue 47. Shutters 60 to isolate any particular furnace are raised or lowered from an overhead trolley. Electricity for the furnaces is generated by a dynamo driven from the main engine. The dried weed passes from the furnaces to elevators 48 and so to hoppers 49. All the operations of collection and destruction are controlled from a platform 50.

Classifications:**International (IPC 8-9):** A01D44/00 (Advanced/Invention); A01D44/00 (Core/Invention)**International (IPC 1-7):** A01D45/08**CPC:** A01D44/00**European:** A01D44/00



Family:

Publication number	Publication date	Application number	Application date
GB369263 A	19320302	GB19300036315	19301202

Priority:

GB19300036315 19301202

Probable Assignee:

MICHAEL RORKE

Assignee(s): (std):

MICHAEL RORKE

4) Family number: 5021172 (NL8005840A)

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Title: DESTRUCTION SYSTEM FOR PLANTS WITH HIGH MOISTURE CONTENT - DREDGES WATER HYACINTHS AND SQUEEZES WATER OUT ABOVE WATER LEVEL BEFORE DUMPING ON LAND

Abstract: The system destroys water plants retaining a large quantity of water, such as water hyacinths. The plants are dredged out of the water and water is squeezed out of them above the water level. The dried matter thus obtained is dumped onto land and/or further processed or destroyed. They can be shaken during the squeezing. The work can be carried out by a vessel or vehicle (1) having an endless elevator conveyor (5) with protruding pins, whose end is let down into the water. This delivers the plants between crusher rollers (16,17) mounted on the vessel.

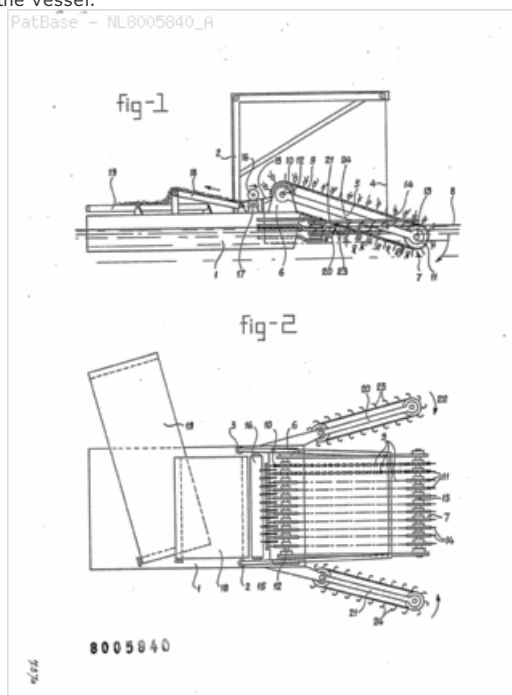
Classifications:

International (IPC 8-9): A01D44/00 (Advanced/Invention); A01D44/00 (Core/Invention)

International (IPC 1-7): A01D44/00 E02F5/28

CPC: A01D44/00

European: A01D44/00



Family:

Publication number	Publication date	Application number	Application date
NL8005840 A	19820517	NL19800005840	19801023

Priority:

NL19800005840 19801023

Probable Assignee:

IHC HOLLAND NV

Assignee(s): (std):

IHC HOLLAND NV

Assignee(s):

IHC HOLLAND TE PAPENDRECHT NV ; IHC HOLLAND N V TE PAPENDRECHT

Title: ENVIRONMENTALLY-NEUTRAL PROCESSING WITH CONDENSED PHASE CRYOGENIC FLUIDS

Abstract: Systems, methods and apparatus are provided for utilizing a substantially condensed phase cryogenic fluid for the purpose of remediation and retrieval of, e.g., spilled crude oil and other "oil spill"-related products from marine/aquatic and terrestrial environments. In some implementations, systems and apparatus are provided for applying a substantially condensed phase cryogenic fluid to a volume of spilled oil, and further having structure for collecting the spilled oil. Some implementations are environmentally-neutral. Substances other than oil may be remediated as well.

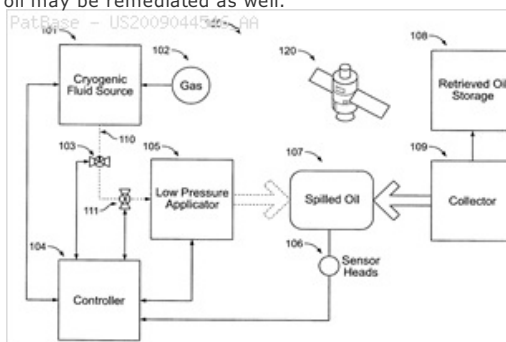
Classifications:

International (IPC 8-9): A01D44/00 B01D17/02 B01D8/00 B08B3/10 B08B7/00 B09B5/00 B09C1/00 C02F1/22 C02F1/40 C02F1/68 E01H12/00 E02B15/04 E02B15/10 F17C13/00 F17C13/08 F17C7/02 F42B39/14 F42D5/04 G06Q90/00 (Advanced/Invention); B01D17/02 B01D8/00 B08B3/10 B08B7/00 B09B5/00 B09C1/00 C02F1/00 C02F1/22 C02F1/40 C02F1/68 E01H12/00 E02B15/00 E02B15/04 F17C13/00 F17C13/08 F17C7/00 F42B39/00 F42D5/00 G06Q90/00 (Core/Invention)

CPC: Y10S210/923 Y02W10/37 Y02A20/204 B09C1/00 C02F2209/02 C09K3/32 E01H1/001 E01H12/002 Y02A20/124 Y02W30/30 B01D17/042 C02F1/40 C02F1/681 C02F2101/32 C02F2103/08 C02F2209/008 C02F2201/008 B08B7/0014 B08B7/0092 B09B1/004 C02F1/22 C02F2101/20 E01H12/006 E02B15/043 G06Q99/00

European: B01D17/04D B08B7/00J B08B7/00T4 B09B1/00C B09C1/00 C02F1/22 C02F1/68C C09K3/32 E01H1/00B E01H12/00B E01H12/00D E02B15/04G G06Q99/00 M02F1/00T2D M02F1/22 M02F1/40 M02F1/68C M02F101/20 M02F101/32 M02F103/08 M02F201/00M M02F209/00T4 M02F209/02

US: 134/105 134/198 15/321 210/143 210/170.01 210/170.010P 210/170.09 210/177 210/198.1 210/198.100P 210/242.1 210/242.100S 210/242.3 210/242.300P 210/602 210/739 210/742 210/744 210/747 210/747.5 210/747.6 210/774 210/776 210/923 44/307 47/59.00R 47/59R 56/9 588/249 588/249S 62/123 62/293 62/46.1 62/50.1 62/50.100S 62/50.7 62/50.700S 62/52.1 62/52.100S 62/53.2 62/53.200S 62/533 62/533P 62/536 62/540 62/66 705/500 705/500S

**Family:**

Publication number	Publication date	Application number	Application date
AP2010005193 A0	20100430	AP20100005193	20070816
EA022854 B1	20160331	EA20100070275	20070816
EA201070275 A1	20101029	EA20100070275	20070816
EP2190598 A2	20100602	EP20070872736	20070816
EP2190598 B1	20200603	EP20070872736	20070816
US2009044546 AA	20090219	US20070839233	20070815
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US2009045115 AA	20090219	US20070839247	20070815
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US2010043487 AA	20100225	US20090549674	20090828
US2010287980 AA	20101118	US20100815626	20100615
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WO09023032 A2	20090219	WO2007US76145	20070816
WO09023032 A3	20091217	WO2007US76145	20070816
WO09151718 A2	20091217	WO2009US38280	20090325
WO09151718 A3	20100708	WO2009US38280	20090325
WO09151718 A9	20100311	WO2009US38280	20090325

Priority:

US20070839077	20070815	US20070839126	20070815	US20070839178	20070815
US20070839193	20070815	US20070839195	20070815	US20070839196	20070815
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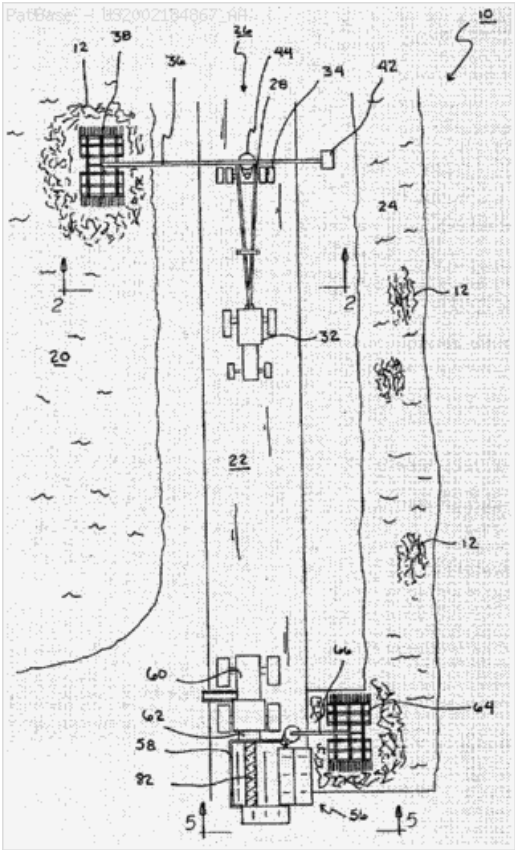
Probable Assignee: DE STRULLE RONALD**Assignee(s):** (std): DE STRULLE RONALD**Assignee(s):** GOLUB CAPITAL INC AGENT AS ; REGIONS BANK ; TIPPMANN SPORTS LLC ; HSBC BANK CANADA AGENT AS ; GOLUB CAPITAL INC ; BANK OF MONTREAL**Inventor(s):** (std): DE STRULLE RONALD**Agent(s):** PETERREINS FRANK; KUNZ HERBERT; FISH AND RICHARDSON PC; BORODACH SAMUEL; ZOPPO MICHAEL T

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI 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 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 PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: METHOD AND APPARATUS FOR GATHERING, TRANSPORTING, AND PROCESSING AQUATIC PLANTS

Abstract: Disclosed is an apparatus and method for removing water hyacinths. The system of the present invention utilizes a transfer mechanism and grapple to collect hyacinth material from a body of water. The collected material is then passed to a transport for delivery to a header unit and grapple. The header unit grapple then retrieves the hyacinth material and delivers it to a collection bin for processing. The chopped hyacinth material is thereafter discharged for subsequent use as a biomass.

Classifications:
International (IPC 8-9): A01D44/00 (Advanced/Invention); A01D44/00 (Core/Invention)
International (IPC 1-7): A01D4/400 A01D44/00
CPC: A01D44/00
European: A01D44/00
US: 56/9



Family:

Publication number	Publication date	Application number	Application date
US2002184867 AA	20021212	US20020155885	20020524
US6393812 BA	20020528	US20000702709	20001031
US6732499 BB	20040511	US20020155885	20020524

Priority:

US20000702709 20001031 US20020155885 20020524

Probable Assignee: HYDROMENTIA INC

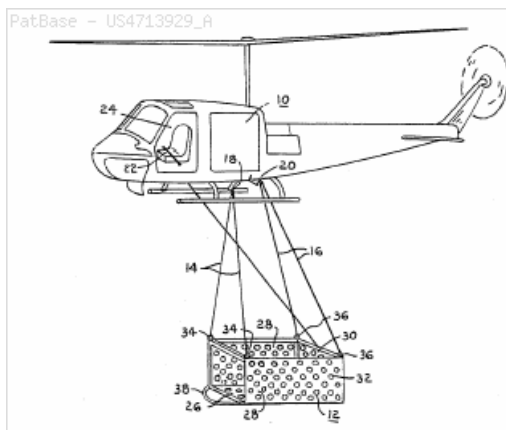
Assignee(s): (std): HYDROMENTIA INC ; MORGAN SAM ; STEWART E ALLEN ; ZIVOJNOVICH MARK J
Inventor(s): (std): STEWART E ALLEN ; ZIVOJNOVICH MARK J ; MORGAN SAM ; STEWART III E ALLEN
Inventor(s): E ALLEN STEWART ; MARK J ZIVOJNOVICH ; SAM MORGAN ; E ALLEN STEWART III
Agent(s): HOLLAND AND KNIGHT LLP

Title: HARVESTING OF AQUATIC VEGETATION BY HELICOPTERS

Abstract: In the operation of certain agricultural and industrial pursuits an excess of various chemicals results. For example, an excess of phosphorus results from the use of fertilizers in the general farming operations of stimulate the growing of grass in the dairy rich areas of central Florida. This excess quantity of phosphorus finds its way into the streams and rivers, and contaminates any of the streams and bodies of water that receive the outflow of these chemically rich waters. For example, the Kissimmee River flows through the dairy rich lands of central Florida and contaminates Lake Okeechobee into which they flow. Many other chemicals used as lubricants and additives in industrial operations that also are discharged into the various bodies of water are harmful to the fish and aquatic plants whose presence is necessary to recycle and purify the water. The purification of many of the bodies of water such as Lake Okeechobee is of major importance because it is relied on as the supplier of fresh water by large areas for domestic and farming purposes. Fortunately Hyacinths, a bulbous plant of the lily family thrives on excessive phosphorus. They grow rapidly and by the time they approach maturity they have absorbed virtually all of the phosphorus of which they are capable. Therefore, to rid the water of excess phosphorus, the Hyacinth plants are being harvested and removed from the waters to make room for the next crop of Hyacinths. The Hyacinth is virtually a surface growing plant, the entire bed being only approximately two to three feet in depth. Difficulties have been encountered in harvesting the Hyacinths by floating equipment, due to the difficulties in unloading the harvesting equipment. It has been found that Hyacinths can economically and rapidly be harvested by helicopters by dragging large buckets through concentrated Hyacinth areas to compact the Hyacinths in the bucket. When the container is filled to capacity the helicopter flies away to the unloading area where the bucket is upended to discharge the Hyacinths whereupon the helicopter quickly flies back to get the next load.

Classifications:

International (IPC 8-9): A01D44/00 (Advanced/Invention);
A01D44/00 (Core/Invention)
International (IPC 1-7): A01D44/00
CPC: Y10S56/02 A01D44/00
European: A01D44/00
US: 56/8 56/DIG.2



Family:

Publication number	Publication date	Application number	Application date
US4713929 A	19871222	US19870023713	19870309

Priority:

US19870023713 19870309

Probable Assignee: COLONY SERVICES INC A CORP OF FLORIDA

Assignee(s): (std): COLONY SERVICES INC

Assignee(s): COLONY SERVICES INC A CORP OF FLORIDA

Inventor(s): (std): SMITH ROBERT W

8) Family number: 56267498 (CN103733808A)

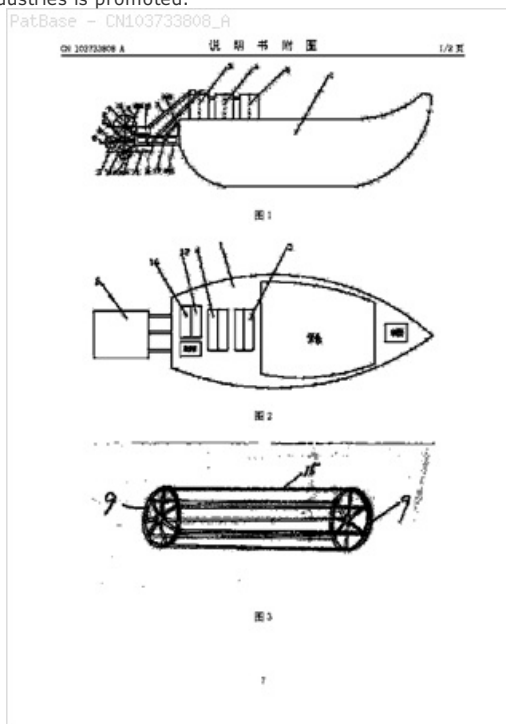
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Title: WATER HYACINTH HARVESTING PROCESSING MOTOR VESSEL AND PROCESS

Abstract: The invention relates to a water hyacinth harvesting processing motor vessel and process. The water hyacinth harvesting processing motor vessel is characterized in that the motor vessel is composed of a vessel body, a harvesting unit, a dehydration unit, a cutting and smashing unit and a packing unit; the harvesting unit comprises a harvesting and cutting machine and a conveyor, the harvesting and cutting machine is composed of shears, an overwater thumbing and gathering wheel and an underwater thumbing and gathering wheel, the shears are combined by an upper row sawtooth-shaped blade and a lower row sawtooth-shaped blade, wherein the lower row sawtooth-shaped blade is fixed, the upper row sawtooth-shaped blade moves left and right to cut stems and roots of water hyacinth and vertically separate the stems from the roots, disc cutters are arranged on the two lateral sides of the shears, and the roots, tangled together, of water hyacinth and stem leaves which are intersected together are cut in the operating process. The conveyor comprises a stem leaf conveyor and a root conveyor, and the stem leaf conveyor is located on the upper portion of the root conveyor. The water hyacinth harvesting processing motor vessel and process have the advantages that ecological environment friendliness, resource utilization, waste material recycling, the reasonable process and efficient operation are integrated, multiple major problems are solved through the motor vessel, and development of multiple industries is promoted.

Classifications:

International (IPC 8-9): A01D43/08 A01D44/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN103733808 A	20140423	CN201310692491	20131218
CN103733808 B	20150729	CN201310692491	20131218

Priority:

CN201310692491 20131218

Probable Assignee: INST ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES

Assignee(s): (std): INST ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES ; INST OF ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES

Assignee(s): OF ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES INST

Inventor(s): (std): CHEN XINZHU ; DONG XIAONING ; LI WENYANG ; LIU YUAN ; GAO CHENGFANG ; ZHANG XIAOPEI

9) Family number: 56515518 (CN203608568U)

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Title: SCISSOR TYPE WATER HYACINTH MOWING AND HARVESTING DEVICE

Abstract: The utility model relates to a scissor type water hyacinth mowing and harvesting device which is characterized by comprising a mower and a conveyor. The mower is composed of a scissor, an overwater shifting and gathering wheel and an underwater shifting and gathering wheel. The scissor is formed by combining upper-row sawtooth-shaped blades and lower-row sawtooth-shaped blades, the lower-row sawtooth-shaped blades are fixed, the upper-row sawtooth-shaped blades move left and right to cut and vertically separate stems and roots of water hyacinths, disk cutters are arranged on two side edges of the scissor, and the disk cutters are used for cutting off the water hyacinth roots twined together and cutting off the stems and leaves of the water hyacinths, wherein the stems and the leaves of the water hyacinths are crossed. The conveyor comprises a stem and leaf conveying device and a root conveying device, and the stem and leaf conveying device is located on the upper portion of the root conveying device. The two shifting and gathering wheels are drum type brackets, wheel disc spoke fulcrum bars are arranged at the two ends of each shifting and gathering wheel, and the spoke fulcrum bars at the two ends are connected to form the drum type brackets through a plurality of transverse connecting rods. According to the scissor type water hyacinth mowing and harvesting device, harvesting of the water hyacinths and separating of the roots and stems are facilitated.

Classifications:

International (IPC 8-9): A01D44/00 (Advanced/Invention)

PatBase - CN203608568_U

说明书附图 1/1 页

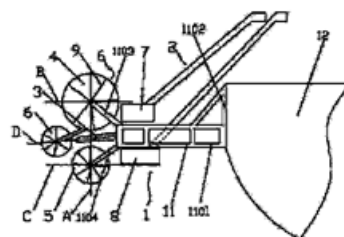


图 1

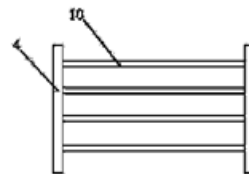


图 2

Family:

Publication number	Publication date	Application number	Application date
CN203608568 U	20140528	CN201320832785U	20131218

Priority:

CN201320832785U 20131218

Probable Assignee: INST ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES

Assignee(s): (std): INST ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES ; INST OF ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES

Assignee(s): OF ANIMAL HUSBANDRY AND VETERINARY FUJIAN ACADEMY OF AGRICULTURAL SCIENCES INST ; ANIMAL HUSBANDRY AND VETERINARY INST FUJIAN ACADEMY OF AGRICULTURAL SCIENCES

Inventor(s): (std): CHEN XINZHU ; DONG XIAONING ; GAO CHENGFANG ; LI WENYANG ; LIU YUAN ; ZHANG XIAOPEI

10) Family number: 9299539 (NL9300327A)

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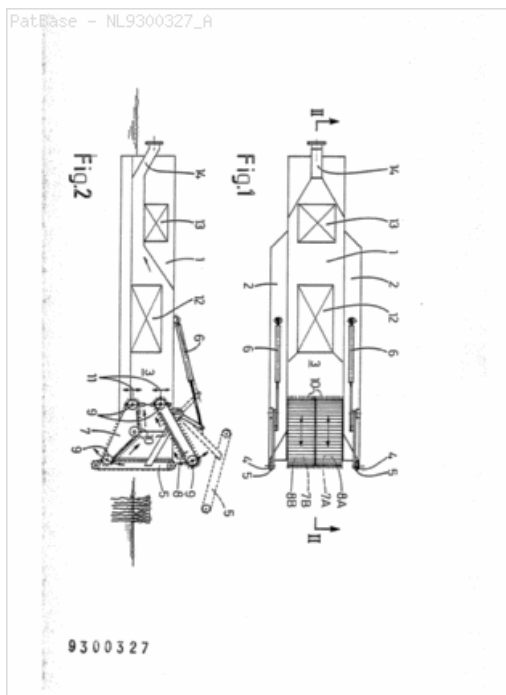
Title: Device for mechanically removing water plants

Abstract: A device for mechanically removing water hyacinths from areas of water, such as rivers, lakes, canals and the like, is provided with a drivable tray-like holding member, which is open on the front side, for holding the water plants in a holding space thereof. The device furthermore comprises introduction means for introducing the water plants into the holding space, means for cutting up the water plants which are held in the tray-like holding member, and means for discharging the cut-up water plants. The introduction means are designed with conveyor members, which extend on the front side of the tray-like holding member and widthways on the top and bottom sides, for conveying the water plants backwards between them.

Classifications:

International (IPC 8-9): A01D44/00 B63B59/08 E02B15/00

E02F5/28 (Advanced/Invention);
A01D44/00 B63B59/00 E02B15/00 E02F5/00 (Core/Invention)
International (IPC 1-7): A01D44/00 E02B15/00 E02F3/92
CPC: A01D44/00 B63B59/08 E02B15/00 E02F5/282
European: A01D44/00 B63B59/08 E02B15/00 E02F5/28B
H01D44/00



Family:

Publication number	Publication date	Application number	Application date
NL9300327 A	19940916	NL19930000327	19930222

Priority:

NL19930000327 19930222 NL19939300327 19930222

Probable Assignee: KONIJN NICOLAAS G

Assignee(s): (std): KONIJN NICOLAAS G

Assignee(s): NICOLAAS GERARDUS KONIJN

11) Family number: 8336796 (WO9221227A2)

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Title: APPARATUS FOR MECHANICALLY REMOVING WATER PLANTS, IN PARTICULAR WATER HYACINTHS, FROM WATERS

Abstract: An apparatus for mechanically removing water plants (W), in particular water hyacinths, from waters, such as rivers, lakes, canals etc., comprises a driven container-like receptacle which is open at the front side for receiving the waterplants in a reception space thereof. The container-like receptacle has front lateral sides extending in upward direction to one of which there are mounted cutting means to laterally cut-off the water plants to be received. A rotary tiller is provided for shredding the water plants received in the container-like receptacle. The shredded water plants are discharged to the shore by a discharge line. The apparatus is provided, on the side where the cutting means are arranged, with suction openings positioned backwardly of said cutting means and communicating with suction means. Rooting means loosen the roots of the water plants from the bottom so that the water plants can be removed entirely.

Classifications:

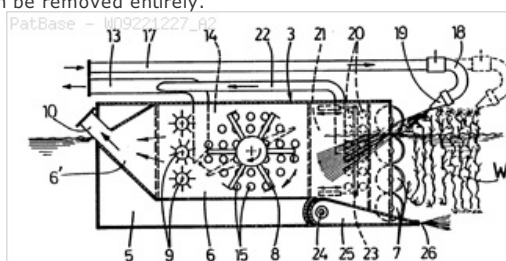
International (IPC 8-9): A01D44/00 (Advanced/Invention);

A01D44/00 (Core/Invention)

International (IPC 1-7): A01D44/00 E02B15/00 E02F3/92

CPC: A01D44/00

European: A01D44/00



Family:

Publication number	Publication date	Application number	Application date
AU199219297 A1	19930108	AU19920019297	19920527
NL9100914 A	19921216	NL19910000914	19910528
WO9221227 A2	19921210	WO1992NL00091	19920527
WO9221227 A3	19930121	WO1992NL00091	19920527

Priority:

NL19910000914 19910528 NL19919100914 19910528 WO1992NL00091 19920527

Probable Assignee: KONIJN NICOLAAS G

Assignee(s): (std): KONIJN NICOLAAS G ; KONIJN NICOLAAS GERARDUS

Assignee(s): NICOLAAS GERARDUS KONIJN ; NICOLAAS GERARDUS KONIJN TE AVENHORN

Inventor(s): (std): KONIJN NICOLAAS GERARDUS

Inventor(s): NICOLAAS GERARDUS KONIJN

Designated states: AT AU BB BE BF BG BJ BR CA CF CG CH CI CM CS DE DK ES FI FR GA GB GN GR HU IT JP KP KR LK LU MC MG ML MN MR MW NL NO PL RO RU SD SE SN TD TG US

Title: METHOD FOR HAMESSING EUTROPHICATION OF WATER BODY AND BRED HYACINTH

Abstract: A method for controlling the the ultrophication of water body and eliminating the water hyacinth features that a remotely controlled ship with the cutting blades installed to a rotating axle is used to shear the water hyacinth for making it become broken pieces, and the hydrophilic resin blocks with ion exchange function and mesh structure is used on the water surface for planting land plants to absorb the nutrients (N, P, etc) from water.

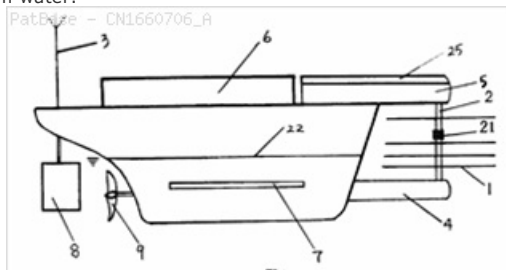
Classifications:

International (IPC 8-9): A01D44/00 A01G31/00 A01M21/02 C02F3/32 (Advanced/Invention);

A01D44/00 A01G31/00 A01M21/00 C02F3/32 (Core/Invention)

International (IPC 1-7): A01D44/00 A01G31/00 A01M21/02 C02F3/32

CPC: Y02P60/216



Family:

Publication number	Publication date	Application number	Application date
CN1660706 A	20050831	CN200410015550	20040228

Priority:

CN200410015550 20040228

Probable Assignee:

CHEN PEIHAO

Assignee(s): (std):

CHEN PEIHAO

Inventor(s): (std):

CHEN PEIHAO

Inventor(s):

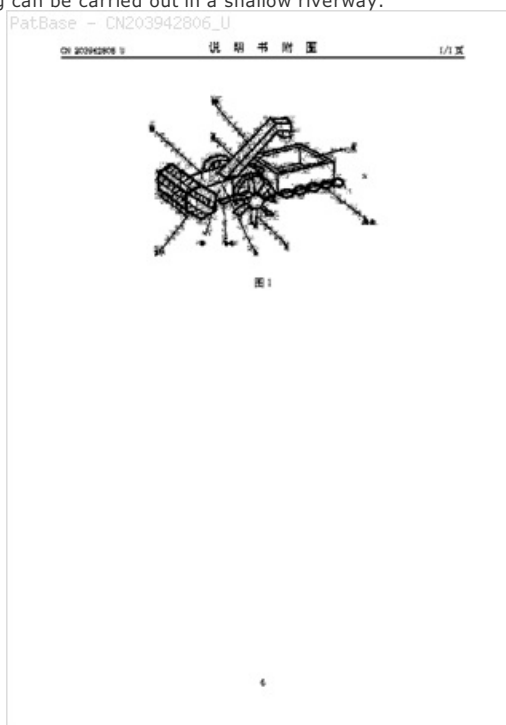
PEIHAO CHEN

Title: WATER HYACINTH DUCKWEED HARVESTER

Abstract: The utility model belongs to the field of harvesters and discloses a water hyacinth duckweed harvester which comprises a cutter, a conveying device and an engine compartment. The cutter and the conveying device are connected with the engine compartment. A moving compartment, water wheels and a collecting compartment are further included. The moving compartment is divided into two parts. A front half part is a weed compartment which is connected with the cutter. A back half part is the engine compartment, and a diesel engine is arranged in the engine compartment. The water wheels are arranged on the left side and the right side of the moving compartment respectively. The water wheels are connected with the engine compartment. The collecting compartment is arranged on the back portion of the moving compartment. A second floating device is arranged on the lower portion of the collecting compartment. The water hyacinth duckweed harvester is an on-water aquatic plant harvester which floats on a water surface through the floating device, the water hyacinth duckweed harvester has the advantages that weight is light, a ship is not used as a carrier, and the whole harvester floats on the water surface; efficiency is high, the whole harvester accords with the water surface, and the cutter can harvest water hyacinth and duckweeds conveniently; and operation is convenient, and harvesting can be carried out in a shallow riverway.

Classifications:

International (IPC 8-9): A01D44/00 (Advanced/Invention)



Family:

Publication number	Publication date	Application number	Application date
CN203942806 U	20141119	CN201420354749U	20140630

Priority:

CN201420354749U 20140630

Probable Assignee: UNIV NANJING INF SCI AND TECH

Assignee(s): (std): NANJING UNIV OF INFORMATION SCIENCE AND TECHNOLOGY ; UNIV NANJING INF SCI AND TECH

Inventor(s): (std): CHEN HANXIANG