

1) Family number: 2368097 (DE2456202A1)

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Title: HOLLOW BUOYANCY COMPONENT WITH CARRIER STRUCTURE - HAS MULTI-LAYER PLASTIC WALL WITH SANDWICHED FOAM TO GIVE BUOYANCY EVEN IF COMPONENT IS WATER-FILLED

Abstract: The component used in pontoon bridges comprises expanded foam material and reinforcing elements. The wall of the component is built up from at least one layer of foam material (6) and at least two plastic sheets (7, 8) between which the foam material is sandwiched. At least the plastic sheets forming the outside of the wall are reinforced by inserts. The specific gravity of the foam material is such that, even when the hollow component is filled with water, the buoyancy of the component is sufficient to make it flat and still support the carrier structure. The corners of the component may be further reinforced by additional plastic sheets (16) with inserts.

Classifications:

International (IPC 8-9): B63B35/38 B63B43/10 B63B5/24

E01D15/14 E02B3/06 (Advanced/Invention);

B63B35/34 B63B43/00 B63B5/00 E01D15/00

E02B3/06 (Core/Invention)

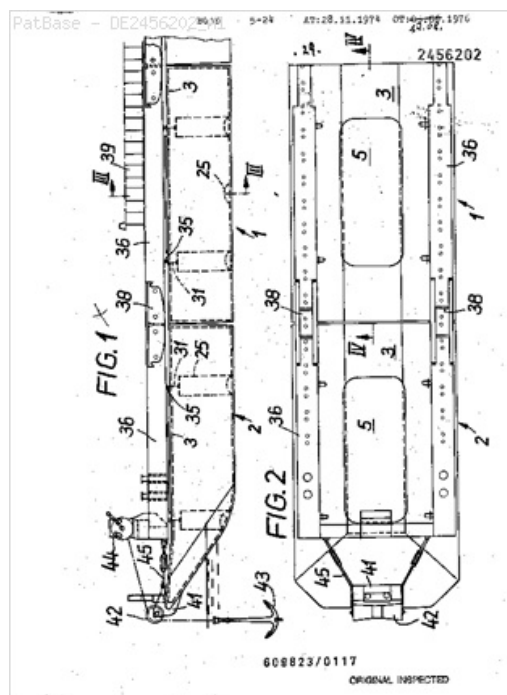
International (IPC 1-7): B63B35/38 B63B43/10 B63B5/24

E01D15/14

CPC: B63B5/24 B63B35/38 B63B43/10 E01D15/14 E02B3/064

European: B63B35/38 B63B43/10 B63B5/24 E01D15/14

E02B3/06B2



Family:

Publication number	Publication date	Application number	Application date
DE2456202 A1	19760812	DE19742456202	19741128
NL7513560 A	19760601	NL19750013560	19751120
ZA7507424 A	19761124	ZA19750007424	19751126

Priority:

DE19742456202 19741128

Probable Assignee: KRUPP GMBH

Assignee(s): (std): KRUPP GMBH

Assignee(s): FRIED KRUPP GES MIT BESCHRANKTER HAFTUNG ; FRIED KRUPP GESELLSCHAFT MIT BESCHRAENKTER HAFTUNG TE ESSEN BONDSREPUBLIK DUTSLAND ; FRIED KRUPP GESELLSCHAFT MIT BESCHRANKTER HAFTUNG ; FRIED KRUPP GMBH

Inventor(s): (std): SEDLACEK GERHARD ; SEDLACEK HUGO ; HUGO SEDLACEK ; GERHARD SEDLACEK ; SEDLACEK HUGO DIPL ING ; SEDLACEK GERHARD DR ING

2) Family number: 55715261 (CA2783865A)

© PatBase

Title: FLOATING, SELF-PROPELLING, SELF-BALLASTING PIVOTABLE BRIDGE

Abstract: A floating, self-propelling, self-ballasting, pivotable bridge system is described. The bridge has a main bridge body with a pontoon-like structure. One end of the bridge has a pivoting system comprising complementary pivot plates, one attached to the bridge and the other on land with a pivot pin attaching them at a pivot point. The other end of the bridge has a releasable locking mechanism. The bridge has ballast tanks for raising and lowering its level in the water. The bridge also has thrusters for propelling itself through the water when it pivots from a closed position spanning a waterway to an open position allowing boat traffic through a waterway.

Classifications:

International (IPC 8-9): E01D15/10 E01D15/14 (Advanced/Invention)

CPC: E01D15/10 E01D15/14

Application number / numéro de demande: 2783865

Figure 1

Pages: 1 to 7 - all pages

Unreusable items
received with this application
(Request original documents in 211e Prop. Section on the 10th floor)

Documents reçus avec cette demande ne pouvant être utilisés
(Commander les documents originaux dans la section de préparation des dossiers au 10^{ème} étage)

Family:

Publication number	Publication date	Application number	Application date
CA2783865 AA	20140131	CA20122783865	20120731
CA2783865 C	20170704	CA20122783865	20120731

Priority:

CA20122783865 20120731

Probable Assignee:

SMITH SHAUN

Assignee(s): (std):

SMITH SHAUN

Inventor(s): (std):

SMITH SHAUN

Agent(s):

BORDEN LADNER GERVAIS LLP

3) Family number: 56300442 (US8707494B)

© PatBase

Title: MODULAR FLOATING FRAME STRUCTURE FOR USE WITH PONTOONS

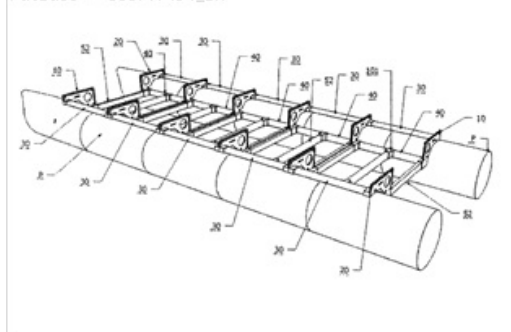
Abstract: A modular frame structure that can accept buoyancy members for construction of floating structures such as boats, rafts, barges, bridges and other platforms includes generally L-shaped planar sheet form drop gussets having horizontal and vertical leg portions provided with respective upper and lower receivers for connection to upper and lower tubular frame members.

Classifications:**International (IPC 8-9):** E01D15/20 (Advanced/Invention)**CPC:** E01D15/14 B63B7/04 B63B35/613 B63B2003/085

B63B2007/006

US: 114/264 14/2.4 14/27

PatBase - US8707494_BA

**Family:**

Publication number	Publication date	Application number	Application date
US8707494 BA	20140429	US20130755983	20130131

Priority:

US20130755983 20130131

Probable Assignee:

BERGLUND BRUCE PAUL

Assignee(s): (std):

BERGLUND BRUCE PAUL ; DAVIS RONALD SCOTT

Inventor(s): (std):

BERGLUND BRUCE PAUL ; DAVIS RONALD SCOTT

4) Family number: 4536449 (US5007764A)

© PatBase

Title: Insulated trafficked surface

Abstract: PCT No. PCT/FI89/00059 Sec. 371 Date Jan. 24, 1990 Sec. 102(e) Date Jan. 24, 1990 PCT Filed Mar. 30, 1989 PCT Pub. No. WO89/09853 PCT Pub. Date Oct. 19, 1989. An insulated trafficked surface having a first sheet of steel having corrugations, a second sheet of steel having corrugations attached perpendicular to and adjacent to the first sheet, a plurality of fasteners connecting the second sheet to the top of the first sheet, a heat insulating fill material filling the cavities of the corrugations of the first and second sheet, a covering layer of aggregate material formed on the top surface of the first and second sheets, and a surface layer of pavement formed over the top surface of the covering layer. The fasteners may be either rivets or screws. The aggregate material is a stabilized or unstabilized crushed aggregate. The surface layer is an asphalt pavement. The fill material is an expanded plastic.

Classifications:

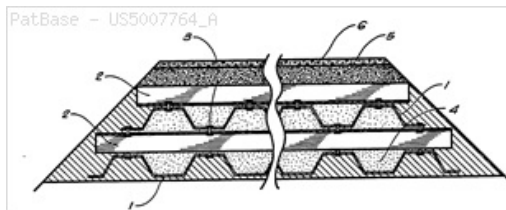
International (IPC 8-9): B63B35/34 E01B1/00 E01C3/00 E01C3/06 E01C9/08 E01C9/10 E01D15/14 E02B3/06 (Advanced/Invention); E01D101/40 (Advanced/Non-invention); B63B35/34 E01B1/00 E01C3/00 E01C9/00 E01D15/00 E02B3/06 (Core/Invention)

International (IPC 1-7): B28D1/08 E01C3/00 E01C3/06 E01C9/08 E01C9/10 E01D15/14 E02B3/06

CPC: B63B35/34 E01B1/00 E01B1/001 E01B1/002 E01B2204/08 E01C9/08 E01D15/14 E01C3/06

European: B63B35/34 E01B1/00 E01C3/06 E01C9/08 E01D15/14 P01B1/00B P01B1/00C P01B204/08

US: 404/28 404/31 404/70



Family:

Publication number	Publication date	Application number	Application date
CA1306379 A1	19920818	CA19890596092	19890407
FI881664 A	19891012	FI19880001664	19880411
FI881664 A0	19880411	FI19880001664	19880411
FI91429 B	19940315	FI19880001664	19880411
FI91429 C	19940627	FI19880001664	19880411
JP1901525 C3	19950127	JP19890503747	19890330
JP3500558 T2	19910207	JP19890503747T	19890330
JP6025401 B4	19940406	JP19890503747	19890330
RU2013486 C1	19940530	SU19894742956	19891130
SE466802 B	19920406	SE19890004166	19891211
SE466802 C	19920730	SE19890004166	19891211
SE8904166 A	19901001	SE19890004166D	19891211
SE8904166 A0	19891211	SE19890004166	19891211
SE8904166 L	19901001	SE19890004166	19891211
US5007764 A	19910416	US19900435523	19900124
WO8909853 A1	19891019	WO1989FI00059	19890330

Priority:

FI19880001664 19880411 WO1989FI00059 19890330

Probable Assignee: ESKO POENTYNEN JYVAESKYLAE FI

Assignee(s): (std): POENTYNEN ESKO ; PONTYNEN ESKO

Assignee(s): ESKO PENTINEN ; ESKO POENTYNEN ; ESKO POENTYNEN JYVAESKYLAE FI ; HONCHUNEN ESUKO

Inventor(s): (std): POENTYNEN ESKO ; PONTYNEN ESKO ; ESKO PENTINEN

Inventor(s): ESKO POENTYNEN ; HONCHUNEN ESUKO ; SOEK

Agent(s): AWAPATENT AB

Designated states: FI JP SE SU US

5) Family number: 40495490 (DE102007023375B4)

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Title: Ponton-Bruecke

Abstract: The bridge has individual pontoons connected with each other for crossing a waterway. A standpipe (8) provided as a pivotable axle for a pontoon body (55) close to a bank of the waterway is fixed, where the pontoon body is pivoted around the standpipe on the water such that the waterway is utilized for water vehicles. A guide pipe (23) is fastened to the pontoon body by a welded connection. The guide pipe is supported and fixed in guides (7) of the pontoon body by guide rails. The body is connected with each other by a connection coupler.

Classifications:

International (IPC 8-9): E01D15/04 E01D15/14 (Advanced/Invention); E01D15/00 (Core/Invention)

CPC: E01D15/145

European: E01D15/14D

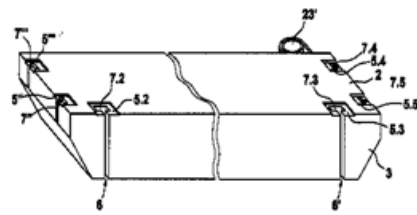


Fig. 1A

7/18

Family:

Publication number	Publication date	Application number	Application date
DE102007023375 A1	20080430	DE200710023375	20070519
DE102007023375 B4	20081127	DE200710023375	20070519
DE202006016148 U1	20070927	DE200620016148U	20061021

Priority:

DE200620016148U 20061021

DE200710023375 20070519

Probable Assignee:

ARNOLD RITSCHER GMBH

Assignee(s): (std):

ARNOLD RITSCHER GMBH

Inventor(s): (std):

RITSCHER KLAS

6) Family number: 30338559 (US6698371B)

© PatBase

Title: Boat with personnel elevator apparatus

Abstract: The apparatus is a boat with a device for lifting a worker up to a location under bridges for maintenance or inspection. The preferred embodiment of the invention is an outboard motor propelled catamaran with a scissors type lift elevator or aerial boom located approximately in the center of the boat. One or more outrigger pontoons that are partially filled with water stabilize the boat, and the pontoons are pivoted back aboard the boat and emptied for over the road transport of the boat.

Classifications:

International (IPC 8-9): B63B35/58 B63B43/04 B63B43/14
B66F11/04 E01D19/10 (Advanced/Invention);
B63B35/58 B63B43/00 B66F11/04 E01D19/00 (Core/Invention)

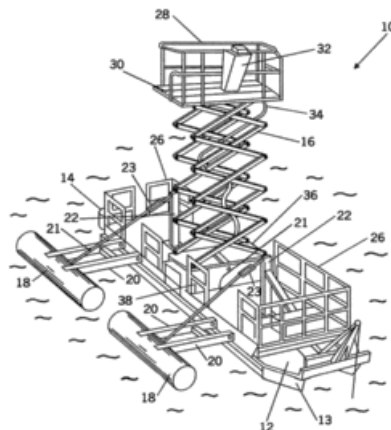
International (IPC 1-7): B63B1/00

CPC: B63B35/58 B63B43/04 B63B43/14 B63B2001/145
B63B2241/26 B66F11/042 B66F11/044 E01D19/106

European: B63B35/58 B63B43/04 B63B43/14 B66F11/04A
B66F11/04B E01D19/10C L63B1/14V L63B241/26

US: 114/61.1 114/611 182/69.1 182/691

FIG. 1

**Family:**

Publication number	Publication date	Application number	Application date
US6698371 BA	20040302	US20020281585	20021028

Priority:

US20020281585 20021028

Probable Assignee:

STOLTZFUS HAROLD A

Assignee(s):

STOLTZFUS HAROLD A

Inventor(s): (std):

STOLTZFUS HAROLD A

7) Family number: 3874646 (US4416485A)

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Title: Multiple use: pontoon bridge section

Abstract: A complete section of pontoon bridge carried on a support structure that is applied to existing apertures on the cargo box of military trucks. The section of pontoon bridge forms a complete weather proof cover for the cargo box and leaves the cargo area free to carry other cargo. Bullet resisting pontoon bridge decking form the sides of the weather proof cover and an inverted pontoon forms the roof. With the section of pontoon bridge removed from its truck, an armored assault boat can be constructed from the pontoon and decking. The decking is bolted together to form a cabin which in turn is inserted in the upright pontoon. With an outboard motor applied to the stern a motorized-armored assault boat is completed.

Classifications:**International (IPC 8-9):** B63B7/04 E01D15/14 E01D15/22

F41H7/02 (Advanced/Invention);

F02B61/04 (Advanced/Non-invention);

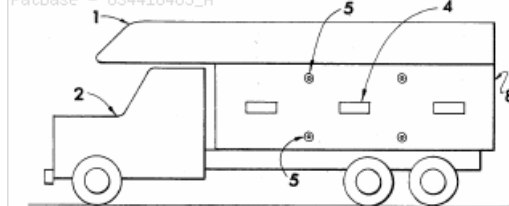
B63B7/00 E01D15/00 F41H7/00 (Core/Invention);

F02B61/00 (Core/Non-invention)

International (IPC 1-7): B62D25/00 B62D29/00 B62D33/00**CPC:** B63B7/04 E01D15/14 E01D15/22 F02B61/045 F41H7/02**European:** B63B7/04 E01D15/14 E01D15/22 F41H7/02 R02B61/04B**US:** 114/14 296/100 296/100.01 296/157 296/187.03 296/188

296/43 89/36.08 89/36H 89/929 89/937

PatBase - US4416485_A

**Family:**

Publication number	Publication date	Application number	Application date
US4416485 A	19831122	US19810298902	19810902

Priority:

US19810298902 19810902

Probable Assignee:

LONG ALVIN L

Assignee(s): (std):

LONG ALVIN L

Inventor(s): (std):

LONG ALVIN L

8) Family number: 55194672 (US8590085B)

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Title: FLOATING, SELF-PROPELLING, SELF-BALLASTING PIVOTABLE BRIDGE

Abstract: A floating, self-propelling, self-ballasting, pivotable bridge system is described. The bridge has a main bridge body with a pontoon-like structure. One end of the bridge has a pivoting system comprising complementary pivot plates, one attached to the bridge and the other on land with a pivot pin attaching them at a pivot point. The other end of the bridge has

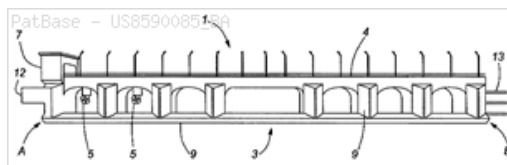
a releasable locking mechanism. The bridge has ballast tanks for raising and lowering its level in the water. The bridge also has thrusters for propelling itself through the water when it pivots from a closed position spanning a waterway to an open position allowing boat traffic through a waterway.

Classifications:

International (IPC 8-9): E01D15/04 (Advanced/Invention)

CPC: E01D15/04 E01D15/145

US: 14/27 14/28 14/29 14/30 14/32 14/34 14/35



Family:

Publication number	Publication date	Application number	Application date
US8590085 BA	20131126	US20120562632	20120731

Priority:

US20120562632 20120731

Probable Assignee: SMITH SHAUN

Assignee(s): (std): SMITH SHAUN

Inventor(s): (std): SMITH SHAUN

Agent(s): BORDEN LADNER GERVAIS LLP; GAIL C

9) Family number: 19960687 (GB607437A)

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Title: Improvements in or relating to rafting equipment

Abstract: 3513. [Classes 113 (i) and 113 (ii)] A raft on which loading ramps can be adjusted and locked at a suitable angle relative to the deck, which angle will remain constant during loading, comprises pontoons 79, spaced apart broadside-on and carrying a centrally disposed roadway 123, supported on box-like girders 85 connected together by connector girders 92 which are hinged to the girders 85 at the top and pinned through elongated slots at the bottom, thereby allowing limited articulation. At each end of the roadway 123, ramp girders 98 are hinged at the top to the girders 85 and connected at the bottom by adjustable rigid yokes 107. Hornbeam girders 97 are detachably secured to the top and bottom of the ramp girders 98. The ends of the hornbeam girders are connected by cables 120 to posts 116 pivoted at the bottom to the end girders 85. The posts 116 at opposite ends are connected together by cables 119 through turnbuckles 121 at each end. By this means the ramps can be raised or lowered, then locked in position by the yoke 107. In a modification, the roadway is mounted on the deck of the pontoons, the side girders being arranged to hinge and lie flat on deck during transport, and in operation to be directly connected to those of adjacent pontoons. Loading ramps are hinged at the bottom and adjustable for inclination at the top. A further smaller type is mounted on two folding boats and consists of a centre track with ramp tracks at each end, interconnected by a symmetrical system of linkwork allowing limited articulation and adjustment for inclination of the ramps.

Classifications:

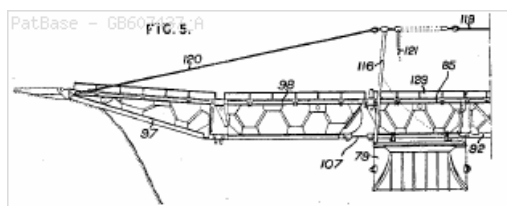
International (IPC 8-9): E01D15/14 E01D15/22 (Advanced/Invention);

E01D15/00 (Core/Invention)

International (IPC 1-7): B63B35/54 E01D15/14

CPC: E01D15/14 E01D15/22

European: E01D15/14 E01D15/22



Family:

Publication number	Publication date	Application number	Application date
GB607437 A	19480831	GB19460003513	19460204

Priority:

GB19460003513 19460204

Probable Assignee: LAURENCE HOIROYD

Assignee(s): (std): DONALD COLEMAN BAILEY ; JOHN GWYNNE WHITMAN ; LAURENCE HOIROYD ; STEPHEN GEORGE GALPIN

10) Family number: 21426701 (US2321677A)

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Title: AMPHIBIAN BRIDGE

Abstract: 1. Amphibian bridge comprising a train of wheeled pontoons serially connected end to end and an amphibian automotive unit having a power driven winch, a cable on said winch connected to the head of said train whereby said automotive unit can travel close coupled to said train or move away therefrom while still connected to said train.

Classifications:

International (IPC 8-9): E01D15/22 (Advanced/Invention);

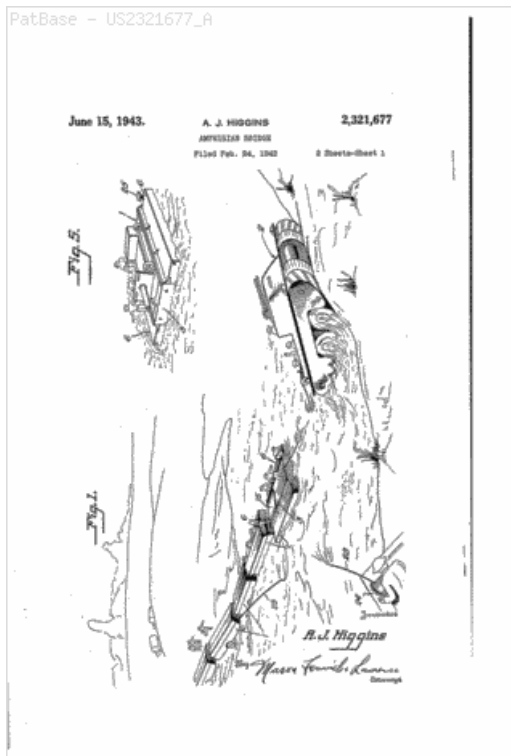
E01D15/00 (Core/Invention)

International (IPC 1-7): E01D15/14

CPC: E01D15/22

European: E01D15/22

US: 114/344 14/2.4 280/480

**Family:**

Publication number	Publication date	Application number	Application date
US2321677 A	19430615	US19420432138	19420224

Priority:

US19420432138 19420224

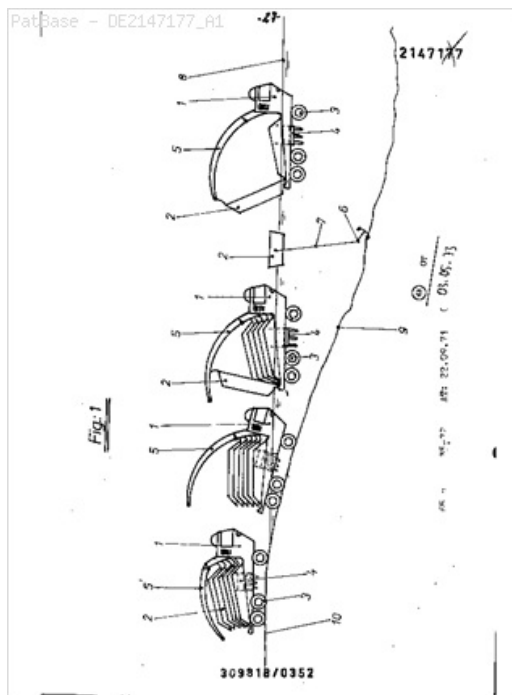
Probable Assignee: JACKSON HIGGINS ANDREW**Assignee(s):** (std): JACKSON HIGGINS ANDREW**Inventor(s):** (std): JACKSON HIGGINS ANDREW**Inventor(s):** HIGGINS ANDREW JACKSON**11) Family number: 1710749** (DE2147177A1)

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Title: TRAEGERFAHRZEUG FUER PONTONS OD.DGL TRAEGERFAHRZEUG for pontoons or the like (Machine translation)**Abstract:** Source: DE2147177A1 [DE] Patentansrd'che)Oraegeriazeug fuer Pontons od dgl dadurch gekennzeichnet, ass das Traegerfahrzeug (1) schwimmfaehig ausgebildet ist und mindestens einen Ladeplatz fuer einen Stapel von Pon tons (2) od dgl aufweist, welcher gleichzeitig als Auf triebskoerper dient 2.**Machine translation:** Patentansrd'che) Oraegeriazeug for pontoons od the like wherein the Traegerfahrzeug ass (1) is trained buoyant and at least one loading space for a stack of Pon tons (2) od has the like, which simultaneously serves as an up triebskoerper second**Classifications:****International (IPC 8-9):** E01D15/22 (Advanced/Invention);

E01D15/00 (Core/Invention)

International (IPC 1-7): B60F3/00 B62D39/00 E01D15/14**CPC:** E01D15/22**European:** E01D15/22



Family:

Publication number	Publication date	Application number	Application date
DE2147177 A1	19730503	DE19712147177	19710922
DE2147177 B2	19740328	DE19712147177	19710922
DE2147177 C3	19741017	DE19712147177	19710922

Priority:

DE19712147177 19710922

Probable Assignee: FLEUCHAUS LEO DIPL ING 8000 MUENCHEN

Assignee(s): (std): FLEUCHAUS LEO DIPL ING ; STOEBERL HELMUT

Assignee(s): STOEBERL HELMUT 8201 EGGSTAETT ; FLEUCHAUS LEO DIPL ING 8000 MUENCHEN

Inventor(s): (std): STOEBERL HELMUT

Inventor(s): STOEBERL HELMUT 8201 EGGSTAETT

12) Family number: 355759 (DE1556954A1)

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Title: FAEHRE FUER UEBERSETZVERKEHR UND SCHWIMMBRUECKEN FERRY FOR ABOUT PUTTING TRANSPORT AND SCHWIMMBRUECKEN (Machine translation)

Abstract: Source: DE1556954A1 [DE] (Claim 1) PAe 'II#TANSPRUeCHE 1. Faehre zum Aersetzverkehr von laengen- und zahlenmaessig 'groesseren Lasten und zur Bildung von Schwimmbruecken, die aus einer I ehrzahl von austauschbaren und mit Eisenbahn- oder 3ltrassenfahrzeugen befoerderbaren sowie durch Zapfen und Haken kuppelbaren Sektionen zusammensetzbar ist, deren Bug und Heckeinheiten mit An-@rieben und Landeklappen versehen sind, dadurch gekennzeichnet, dass die fuer sich schwimmfaehi gen Einzelglieder (2 - 5) mittels kraftschluessiger in der..Lussenhaut und im Verdeck; angreifender, versenkt angeordne ter Kuppelmittel (45 - #)1), die alle die Laenge- und Quer festigkeit beanspruchenden Kraefte aufnehmen; gegenseitig unverrueckbar fest zu einem starren Schiffskoerper mit an bei- deri;@nden vorgesehenen Trimm tanks, mehrgliedrigen Lande- klappE:ii (30, 31) sowie Antrieben durch unter Deck liegende I.o t oren (lu) und in Tunneln (12) laufende Schrauben (11) zusar..mengesetzt sind.

Machine translation: (Claim 1) PAe 'II # TANSPRUeCHE first Ferryboat to Aersetzverkehr of length and zahlenmaessig 'bigger loads and to the formation of Schwimmbruecken that ehrzahl an I of exchangeable and with rail or 3ltrassenfahrzeugen transportable as well as by pins and hook detachable sections assembled, is the bow and stern units with at-@ rubbed and flaps are provided, characterized in that for the schwimmfaehi gene single limbs (2-5) by means of friction-in.. Lussenhaut and in the hood, attacking, countersunk arrange ter dome Medium (45 - #) 1), all of the length- and include cross-resistance claim it forces; mutually immovable fixed to a rigid hulls with sides at derivative; ends @ foreseen trim tanks, multi-limbed land-key: ii (30, 31) and drives at below-deck I.o t belong (lu) and in tunnels (12) running screw (11).. they are an zusar.

Classifications:

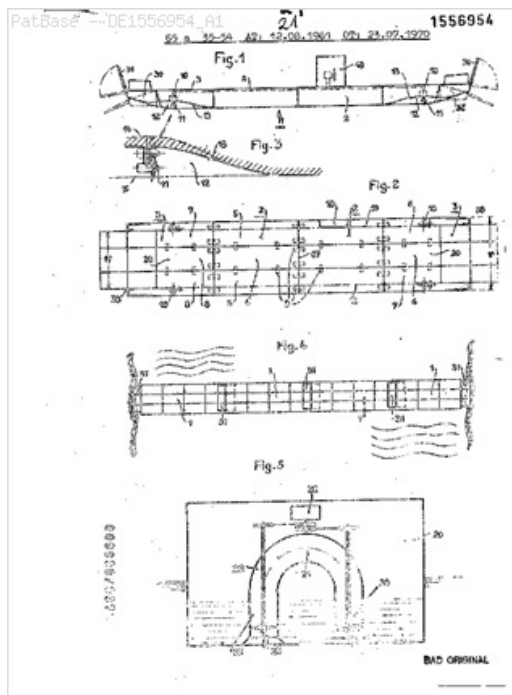
International (IPC 8-9): B63B27/14 E01D15/22 (Advanced/Invention);

B63B27/00 E01D15/00 (Core/Invention)

International (IPC 1-7): B63B3/08 B63B35/54 E01D15/14

CPC: B63B27/143 B63B35/086 E01D15/22

European: B63B27/14B E01D15/22 L63B35/08D



Family:

Publication number	Publication date	Application number	Application date
DE1556954 A1	19700723	DE19611556954	19610812
DE1556954 B2	19730726	DE19611556954	19610812
DE1556954 C3	19740221	DE19611556954	19610812

Priority:

DE1961B063625 19610812

Probable Assignee: BODAN WERFT MOTOREN U SCHIFF

Assignee(s): (std): BODAN WERFT MOTOREN U SCHIFF ; BODAN WERFT MOTOREN UND SCHIFF

Assignee(s): BODAN WERFT MOTOREN UND SCHIFFBAU GMBH ; BODAN WERFT MOTOREN UND SCHIFFBAU GMBH
7993 KRESSBRONN ; BODAN WERFT MOTOREN U SCHIFFBAU GMBH

13) Family number: 6663840 (EP0415793A1)

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Title: IMPROVED BUOYANT STRUCTURE SUITABLE FOR FLOATING BRIDGES.

Abstract: A floating bridge structure consists of modules coupled together in a string either end to end or side by side depending on the nature of the stretch of water to be bridged. Each module comprises a spaced parallel pair of elongate internally compartmentalised inflatable floats (1) with respective elongate rigid platform members (3) attached along their tops and transverse connector members (8) extending between the floats (1) with their ends (11) releasably connected to the platform members (3). The connector members (8) are cranked so that their middle lengths (9) between the floats (1) lie submerged; and in the case where the modules are coupled end to end with their floats (1) parallel to the length of the bridge structure, longitudinal track members (13) on which vehicles can run are mounted on the submerged middle lengths (9) of the connector members (8). In the case where the modules are coupled side by side with their floats (1) transverse to the length of the bridge structure, the track members (13) are mounted on the platform members (3) with their ends supported and located by arch members (27) in turn supported on the middle lengths (9) of the connector members (8).

Classifications:

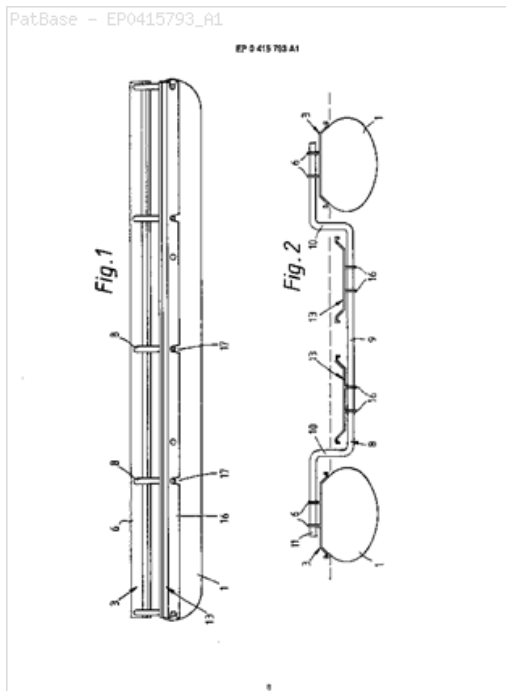
International (IPC 8-9): B63B7/08 E01D15/14 E01D15/20
E02B3/06 (Advanced/Invention);

B63B7/00 E01D15/00 E02B3/06 (Core/Invention)

International (IPC 1-7): B63B7/08 E01D15/14 E02B3/06

CPC: B63B7/082 E01D15/14 E01D15/20 E02B3/064

European: B63B7/08B E01D15/14 E01D15/20 E02B3/06B2

**Family:**

Publication number	Publication date	Application number	Application date
EP0415793 A1	19910306	EP19900309569	19900831
GB8919663 A0	19891011	GB19890019663	19890831

Priority:

GB19890019663 19890831

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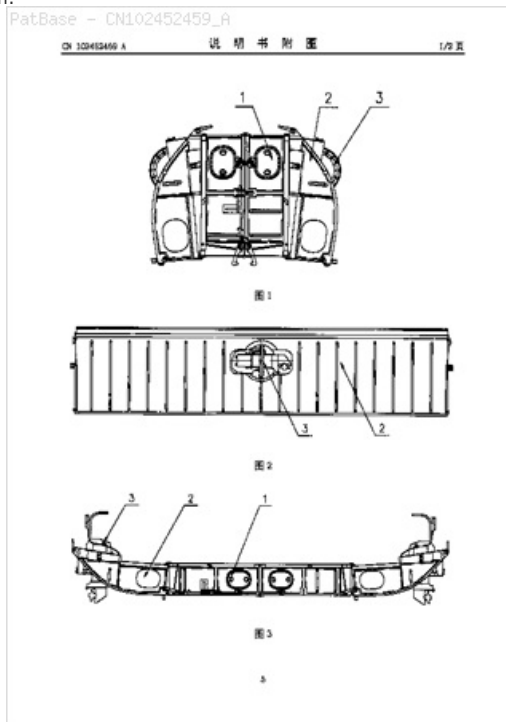
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Title: FOUR-FOLDED PONTOON BRIDGE POWERED BY SELF-CONTAINED OUTBOARD MOTOR

Abstract: The invention provides a four-folded pontoon bridge powered by a self-contained outboard motor. The four-folded pontoon bridge powered by the self-contained outboard motor mainly comprises two square boats, two sharp boats and power systems, wherein the power systems are arranged in the sharp boats; one sharp boat is provided with one power system; and each power system comprises an outboard motor, a rotary disk, a fuel box, a starting storage battery, an operating handle and an outboard motor controller. The boat body has self-propulsion ability, so that the boat body has higher maneuverability during maneuvering on water. According to the boat body, the boat is powered by outboard motor, so the system is simple, has high reliability and is convenient to maintain.

Classifications:

International (IPC 8-9): B63B35/36 B63H20/00 B63H20/08
E01D15/20 (Advanced/Invention)



Family:

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 CN102452459 A	20120516	CN201010514796	20101020
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