

Search history

Search 1: FT=((fish* w2 stunning) and size) (Results 40)
Search 2: 1 and PD<20140822 (Results 33)
Search 3: FT=(fish* and size) and IC=(A22B3/00) (Results 40)
Search 4: 3 and PD<20140822 (Results 38)

Title: PROCESSING OF **FISH**

Abstract: Method of processing of **fish**, for example salmon and related species, said method comprising the steps of providing a live **fish**, slaughtering the **fish**, subjecting the **fish** or part of the **fish** to an electrical stimulation prior to at least a further processing step of the **fish**, and wherein said at least one further processing step comprises the step of removing pin-bones from the **fish** or part of the **fish**. By subjecting the **fish** or part of the **fish** to the electrical stimulation it is achieved that the pin-bones can be removed without waiting for the normal rigor process to be concluded and the normal post-rigor state to be reached and further it is achieved that the pin-bones can still be removed satisfactorily, e.g. without breaking when being pulled etc., since the bonding of the bones are relieved by the electrical stimulation.

Classifications:

International (IPC 8-9): A22B3/00 A22C25/16 A23B4/01 A23B4/015

A23L1/025 A23L1/325 A23L17/00 A23L5/30 (Advanced/Invention)

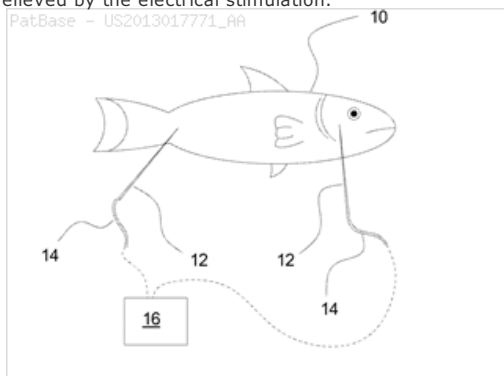
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A23L5/30 A23L17/00 A23B4/06

European: A22B3/08B A22B5/00G A22C25/16 A22C25/16C

A23B4/015 A23B4/06 A23L1/025 A23L1/325

US: 452/106 452/135 452/161



Family:

Publication number	Publication date	Application number	Application date
AU2010338537 AA	20110707	AU20100338537	20101229
AU2010338537 BB	20141120	AU20100338537	20101229
CA2785896 AA	20110707	CA20102785896	20101229
CL2012001753 A1	20121214	CL20120001753	20120626
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DK2519110 T3	20140210	DK20100801148T	20101229
EP2519110 A1	20121107	EP20100801148	20101229
EP2519110 B1	20131106	EP20100801148	20101229
EP2681999 A2	20140108	EP20130185699	20101229
EP2681999 A3	20140312	EP20130185699	20101229
US2013017771 AA	20130117	US20100520011	20101229
WO11079946 A1	20110707	WO2010EP07960	20101229

Priority:

DK20090001382 20091229 EP20100801148 20101229 WO2010EP07960 20101229

Probable Assignee: MARCEL ICELAND EHF

Assignee(s): (std): BIRGISSON RUNAR ; HALLVARDSSON KRISTJAN ; HALLVAROESSON KRISTJAN ; MAREL HF ; MAREL ICELAND EHF

Assignee(s): MARCEL ICELAND EHF

Inventor(s): (std): BIRGISSON RAONAR ; BIRGISSON RUNAR ; HALLVARDSSON KRISTJAN ; HALLVAROESSON KRISTJAN

Inventor(s): HALLVARDSSON KRISTJA N ; BIRGISSON RUNAR

Agent(s): PIZZEYS ; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD; MARKS AND CLERK; BEUCAHT BARROS AND PFENNIGER DOS SA; SAMSON AND PARTNER PATENTANWAELTE MBB; OLESEN KAJ; PATENTGRUPPEN A S

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 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 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 PE PG PH PL PT RO RS RU 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

Title: Fish harvester

Abstract: PCT No. PCT/GN96/01583 Sec. 371 Date May 6, 1998 Sec. 102(e) Date May 6, 1998 PCT Filed Jul. 1, 1996 PCT Pub. No. WO97/01285 PCT Pub. Date Jan. 16, 1997A fish harvester for the automatic and humane slaughter of fish comprises a fish accommodating space having an entrance for insertion of a fish and an exit for removal of a fish. The harvester includes means for positioning and retaining a fish, a slaughtering member for slaughtering a fish by contact with some portion of a fish; and driving means for driving said slaughtering member. The slaughter member preferably includes spikes for insertion into the brain of the fish. The harvester preferably automatically severs a major blood vessel in order to allow bleeding of said fish. The harvester preferably automatically gauges the size of the fish and positions the fish and the slaughtering member relative to each other, with reference to the size of the fish, in order to allow effective operation. A method of automatically slaughtering fish is also provided.

Classifications:

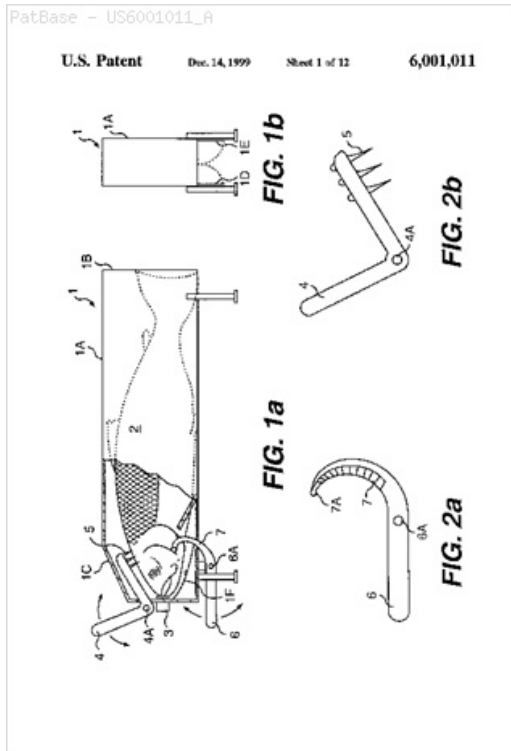
International (IPC 8-9): A22B3/08 A22C25/00 (Advanced/Invention); A22B3/00 A22C25/00 (Core/Invention)

International (IPC 1-7): A22B3/08 A22C25/00 A22C25/06

CPC: A22B3/083 A22C25/00

European: A22B3/08B A22C25/00

US: 452/54 452/65 452/67



Family:

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AU199663120 A1	19970130	AU19960063120	19960701
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DK154097 A	19980219	DK19970001540	19971229
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IS4642 A	19971224	IS19970004642	19971224
JP11508444 T2	19990727	JP19970504262T	19960701
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NO976123 A	19980130	NO19970006123	19971229
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RU2152155 C1	20000710	RU19980101237	19960701
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US6001011 A	19991214	US19970981605	19971229
WO9701285 A1	19970116	WO1996GB01583	19960701

Priority:

GB19950013271 19950629 WO1996GB01583 19960701 WO1996GN01583 19960701

Probable Assignee: NORDISCHER MASCHINENBAU RUD BAADER GMBH AND CO KG

Assignee(s): (std): NORDISCHER MASCHB BR RUD BAADER ; NORDISCHER MASCHB RUD BAADER G ; NORDISCHER MASCHINENBAU ; JAMES GEORGE JOHNSON ; JOHNSON JAMES G ; JOHNSON JAMES GEORGE ; NORDISCHER MASCHINENBAU RUD BAADER GMBH AND CO ; NORDISCHER MASCHINENBAU RUD BAADER GMBH AND CO K

Assignee(s): NORDISHER MASHINENBAU RUD. BAADER GMBKH AND KO. KG ; NORDISCHER MASCHINENBAU BR RUD BAADER GMBH AND CO KG ; NORDISCHER MASCH ; NORDISCHER MASCHINENBAU RUD BAADER GMBH AND CO KG ; NORDISCHER MASCHINENBAURUD BAADER GMBH AND CO KG ; NORDISCHER MASCHINENBAU BR RUD BAADER GMBH AND C

Inventor(s): (std): DZHONSON DZHEJMS DZHORDZH ; JOHNSON JAMES GEORGE

Inventor(s): NORDISCHER MASCHINENBAU RUD BA ; JAMES GEORGE JOHNSON

Agent(s): BORDEN LADNER GERVAIS LLP

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GR
HU IE IL IS IT JP KE KG KP KR KZ LK LR LS LT LU LV MC MD MG MK MN MW MX NL NO NZ PL PT RO RU
SD SE SG SI SK SZ TJ TM TR TT UA UG US UZ VN

Title: FREEZING METHOD AND APPARATUS

Abstract: Various methods useful in connection with catching and freezing **fish** are disclosed. Also disclosed is an immersion freezer. In preferred embodiments, **fish** or other items to be frozen are immersed in a cooling medium. The cooling medium comprises an organic cooling agent, which preferably is a carbohydrate, sugar alcohol, glycoside, or non-toxic oil.

Classifications:

International (IPC 8-9): A01K63/02 A01K69/00 A22B3/00 A22B3/06 A22B3/08 A23B4/06 A23L1/325 A23L17/00 A23L3/36 A23L3/37

B63B35/14 F25C5/14 (Advanced/Invention);

A01K69/00 A23B4/06 A23L3/36 (Advanced/Non-invention);

A01K63/02 A01K69/00 A22B3/00 A23B4/06 A23L1/325 A23L3/36

B63B35/14 F25C5/00 (Core/Invention);

A01K A22B A23L B63B F25C (Subclass/Invention)

International (IPC 1-7): A01K69/00 A22B3/00 A23B4/06 A23I1/325 A23L1/325 A23L3/37 B63B35/14 F25C5/14

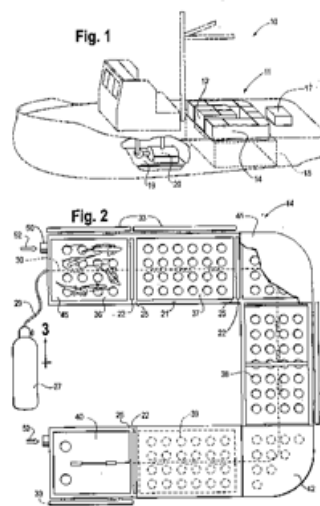
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European: A22B3/08B A23B4/06 A23L3/36

US: 426/524 426/643 426/643P 62/57 62/67

PatBase - US2005031770_RR

Patent Application Publication Feb. 18, 2005 Sheet 1 of 9 US 2005/0031770 A1



Family:

Publication number	Publication date	Application number	Application date
AP200603482 A0	20060228	AP20060003482	20040618
AU2004249232 AA	20041229	AU20040249232	20040618
BRPI0411662 A	20060808	BR2004PI11662	20040618
CA2529050 AA	20051212	CA20042529050	20040618
CN1809271 A	20060726	CN200480017174	20040618
ECSP066300 A	20070126	EC2006SP06300	20060120
EP1635631 A2	20060322	EP20040776735	20040618
EP1635631 A4	20080507	EP20040776735	20040618
IN00213CN2006 A	20070629	IN2006CN00213	20060117
JP2007525959 T2	20070913	JP20060517375T	20040618
KR20060089134 A	20060808	KR20057024347	20040618
MA27902 A1	20060502	MA20060028707	20060106
NO20060270 A	20060320	NO20060000270	20060118
OA13215 A	20061213	OA20051000367	20040618
RU2006101547 A	20070727	RU20060101547	20040618
US2005031770 AA	20050210	US20030654590	20030902
US7048961 BB	20060523	US20030654590	20030902
WO04112490 A2	20041229	WO2004US19462	20040618
WO04112490 A3	20050616	WO2004US19462	20040618
ZA200600023 A	20071128	ZA20060000023	20060103

Priority:

US20030480240 20030620
WO2004US19462 20040618

US20030480240P 20030620

US20030654590 20030902

Probable Assignee: ALASKA OCEAN PRODUCTS CORP

Assignee(s): (std): ALASKA OCEAN PRODUCTS CORP ; GRAIN PROCESSING CORP ; KNAUF JEFF

Assignee(s): LAMBEG ENTERPRISES

Inventor(s): (std): JEFF KNAUF ; KNAUF JEFF

Inventor(s): KMAUF JEFF

Agent(s): SPRUSON AND FERGUSON; MACRAE AND CO; TIMOTHY MALONEY FITCH EVEN TABIN AND FLANNERY; FITCH EVEN TABIN AND FLANNERY

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 KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: Procedure for electro-stunning and/or electro-sacrifice, for industrial application to marine ichthyological species in floating cages

Abstract: Procedure for electro-stunning and/or electro-sacrifice, for industrial application to marine ichthyological species in floating cages having a floating cage (12) with tuna **fish** (6) two divers are introduced, the hunter (1), who uses a rifle with a harpoon with a Teflon head and metallic tip (4), joined to equipment for transforming electric potential (3) on the boat (7) and also connected to a plate (5) submerged and the controller (2) that activates the equipment (3), which sends an electric stunning signal or a signal that kills the **fish** (6) to the two terminals of the plate (5) and tip (4), the **fish** is lifted from the water by the crane (10), and equipped with a collar or identifying plastic label (11), the rifle and the harpoon are recovered towards the boat (7).

Classifications:

International (IPC 8-9): A01K79/02 A01K81/00 A01K81/04
A01K81/06 A22B3/06 A22B3/08 H05C1/00 (Advanced/Invention);
A01K81/00 (Advanced/Non-invention);
A01K79/00 A01K81/00 A22B3/00 H05C1/00 (Core/Invention);
A01K A01M (Subclass/Invention)

International (IPC 1-7): A01K06 A01K79/02 A01K81/00 A01K81/04
A01K81/06 A22B06 A22B3/06 A22B3/08 H05C1/00

CPC: A01K81/04 A01K81/06 A22B3/06 A22B3/083

European: A01K81/04 A01K81/06 A22B3/06 A22B3/08B

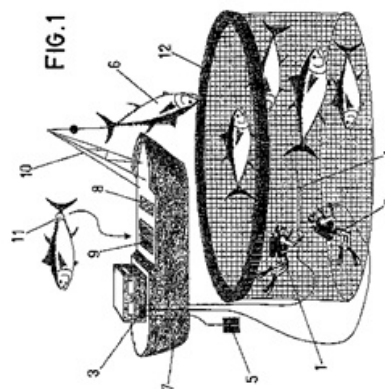
US: 43/17.1 43/4.5 43/6 43/6.5 43/9.6

PatBase - US6453596_BA

U.S. Patent

Sep. 24, 2002

US 6,453,596 B1



Family:

Publication number	Publication date	Application number	Application date
AT267517 E	20040615	AT20000500131T	20000616
AU200151941 A1	20011220	AU20010051941	20010615
AU200151941 A5	20011220	AU20010051941D	20010615
AU759562 B2	20030417	AU20010051941	20010615
CA2350016 AA	20011216	CA20012350016	20010608
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EP1163845 A1	20011219	EP20000500131	20000616
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TR200101616 A2	20011221	TR20010001616	20010606
TR200101616 A3	20011221	TR20010001616	20010606
US6453596 BA	20020924	US20000604487	20000627
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Priority:

EP20000500131 20000616 US20000604487 20000627 JP20000208864 20000710
CA20012350016 20010608

Probable Assignee: GINES MENDEZ ESPANA SL

Assignee(s): (std): GINES MENDEZ ESPANA ; GINES MENDEZ ESPANA S L ; GINES MENDEZ ESPANA SL

Assignee(s): GARCIA MARTINEZ MARCO ANTONIO ; GINES MENDEZ ESPANA SL CTRA MURCIA

Inventor(s): (std): GARCIA MARTINES MARCO ANTONIO ; GARCIA MARTINEZ MARCO ANTONIO ; GARCIA MARTNEZ MARCO ANTONIO ; MARCO ANTONIO GARCIA MARTINEZ ; MARCO GARCIA MARTINEZ ; MARTINEZ MARCO ANTONIO GARCIA

Agent(s): WATERMARK PATENT AND TRADE MARKS ATTORNEYS; WATERMARK INTELLECTUAL PROPERTY PTY LTD; RIDOUT AND MAYBEE LLP

Designated states: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: STUNNING DEVICE FOR KILLING SMALL ANIMALS OR **FISH**

Abstract: Stunning device (1) for small animals or **fish** of 2kg to 7kg weight comprises pneumatically powered piston assembly (2) which includes an extendible piston. Support (3) for piston assembly (2) includes base member (4) and multi-component trigger (22, 23, 24, 26). Piston assembly (2) is positioned to define a space between base member (4) and head plate (21) for receiving the head (27) of the animal. When the piston is activated by head (27) contacting plate (22), it extends and strikes head (27) just behind and/or between the eyes with sufficient force to kill the animal with a shock to the brain, but without affecting the external appearance of the animal or **fish**. The piston extends only once and then retracts, and trigger (22, 23, 24, 26) is reset by removing head (27) from device (1).

Classifications:

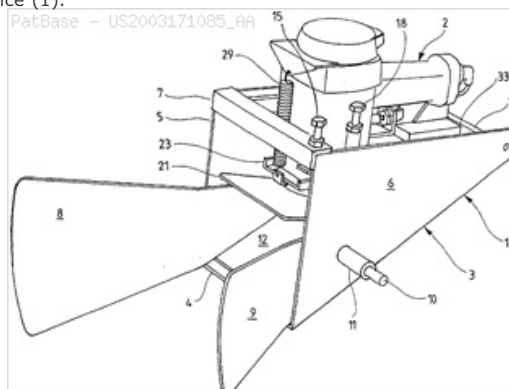
International (IPC 8-9): A22B3/02 A22B3/08 (Advanced/Invention); A22B3/00 (Core/Invention)

International (IPC 1-7): A22B3/02 A22B3/08

CPC: A22B3/083

European: A22B3/08B

US: 452/57 452/62 452/62P



Family:

Publication number	Publication date	Application number	Application date
AU140100 A0	20001207	AU2000PR01401	20001110
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GB200301425 A0	20030219	GB20030001425	20010622
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Priority:

AU2000PQ08310 20000622 AU2000PQ08310 20000622 AU2000PR01401 20001110
 AU20010067132 20010622 WO2001AU00745 20010622

Probable Assignee: BASS R

Assignee(s): (std): BASS R ; BASS RICHARD

Assignee(s): RICHARD BASS

Inventor(s): (std): BASS RICHARD

Inventor(s): RICHARD BASS

Agent(s): CULLENS PATENT AND TRADE MARK ATTORNEYS; CULLENS PTY LTD

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

Title: PROCESS FOR SLAUGHTERING **FISH**

Abstract: An apparatus and process for slaughtering **fish** wherein electro-narcosis is induced by exposing the **fish** to an alternating electrical field having a frequency of greater than 20 Hz for a predetermined duration wherein if the frequency is less than 200 Hz, the duration is less than 2 seconds and wherein the **fish** are subsequently killed whilst unconscious.

Classifications:

International (IPC 8-9): A22B3/06 A22B3/08 (Advanced/Invention);

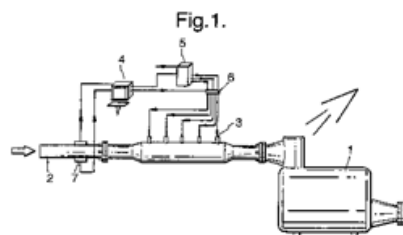
A22B3/00 (Core/Invention)

International (IPC 1-7): A22B3/06 A22B3/08

CPC: A22B3/06 A22B3/083

European: A22B3/06 A22B3/08B

PatBase - WO0038530_R1



Family:

Publication number	Publication date	Application number	Application date
AR021987 AA	20020904	AR1999P106677	19991222
AT284143 E	20041215	AT19990962406T	19991222
AU200018764 A1	20000731	AU20000018764	19991222
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NZ512203 A	20021220	NZ19990512203	19991222
WO0038530 A1	20000706	WO1999GB04361	19991222

Priority:

GB19980028642 19981223

EP19990962406 19991222

WO1999GB04361 19991222

Probable Assignee: MOLLER DAG

Assignee(s): (std): BJORN ROTH ; DAG MOLLER ; MILLER DAG ; MOELLER DAG ; MOLLER DAG ; RACKHAM STEPHEN NEIL ; ROTH BJORN

Inventor(s): (std): MOELLER DAG ; MOLLER DAG ; ROTH BJOERN ; ROTH BJORN

Inventor(s): ROTH ; MOLLER ; BJORN ; BJORN ROTH ; DAG ; DAG MOLLER

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; TORYS LLP; SARGENT

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

Title: METHOD AND ARRANGEMENT FOR APPLYING ELECTRONARCOSIS TO **FISH**

Abstract: Arrangement for applying electronarcosis to **fish**. It comprises a channel (11) in which the **fish** can move in the longitudinal direction of the channel. At least two electrodes (18) are arranged in the channel (11), which come into contact with **fish** that move through the channel. The electrodes are connected to a voltage source (19), which provides a voltage below approximately 50 volts, as they are arranged in such a way that they, as the **fish** moves through the channel, apply a voltage impulse to the **fish** with a duration of at least 0.1 second.

Classifications:

International (IPC 8-9): A01K61/00 A22B3/06

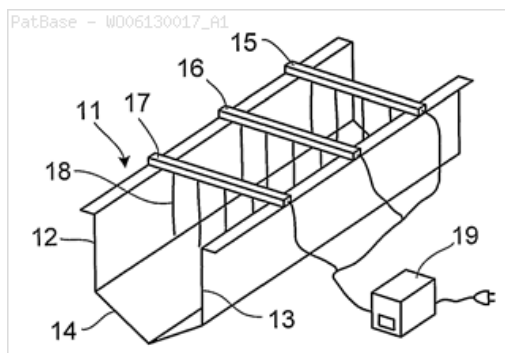
A22B3/08 (Advanced/Invention);

A01K61/00 A22B3/00 (Core/Invention);

A01K (Subclass/Invention)

CPC: A22B3/06 A22B3/083

European: A22B3/06 A22B3/08B



Family:

Publication number	Publication date	Application number	Application date
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EP1895850 A1	20080312	EP20060747659	20060530
EP1895850 B1	20140820	EP20060747659	20060530
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NO20052631 A	20061204	NO20050002631	20050601
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Priority:

NO20050002631 20050601 EP20060747659 20060530 WO2006N000201 20060530

Probable Assignee: KJOLAS STANSEKNIVER AS

Assignee(s): (std): KJOELAAS FRODE HAAKON ; KJOELAAS STANSEKNIVER AS ; KJOLAS STANSEKNIVER AS

Inventor(s): (std): KJOLAS FRODE HAKON ; KJOELAAS FRODE HAAKON

Agent(s): DR STARK AND PARTNER PATENTANWALTE; KHAN MOHAMMED SAIFUL AZAM; POTTER CLARKSON LLP

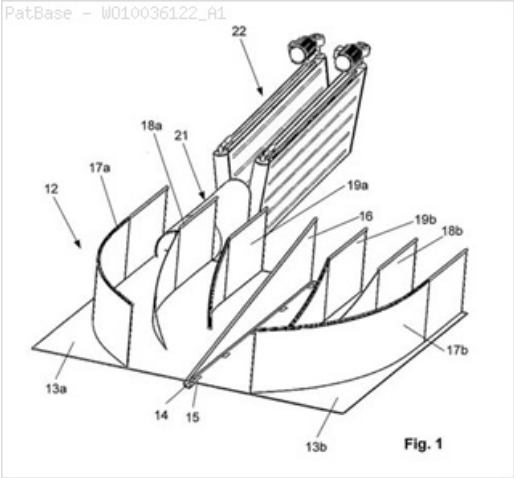
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Title: SYSTEM FOR PROCESSING **FISH**

Abstract: System for processing **fish**, said system comprising means (12) for distributing a flow of **fish** (30), means (20, 21, 26) for orienting and/or singularizing **fish** (30) and means (22) for fixating and transporting live **fish** (30), said system being arranged to distribute a flow of live **fish** (30), to orient and singularize the distributed flow of live **fish** (30), and to transport and fixate the orientated and singularized **fish** (30) for intervention of external units for treatment of the orientated and fixated **fish** (30).

Classifications:

International (IPC 8-9): A22B1/00 A22B3/08 A22C25/08 A22C25/12 B65G47/26 (Advanced/Invention); B65G47/24 (Advanced/Non-invention); A22B1/00 A22B3/00 A22C25/00 B65G47/26 (Core/Invention); B65G47/24 (Core/Non-invention)
CPC: A22B1/00 A01K61/90 A01K63/02 A22B3/083
European: A01K61/00A A01K63/02 A22B1/00 A22B3/08B



Family:

Publication number	Publication date	Application number	Application date
NO328268 B1	20100118	NO20080003924	20080915
WO10036122 A1	20100401	WO2009NO00321	20090914

Priority:

NO20080003924 20080915

Probable Assignee: SEASIDE AS

Assignee(s): (std): BAR EIRIN MARIE SKJOENDAL ; BONDØE MORTEN STEEN ; KJOELAAS FRODE HAAKON ; MISIMI EKREM ; ØESTVIK STEIN OVE ; SEASIDE AS ; SINTEF FISKERI OG HAVBRUK AS ; VEBENSTAD PETTER AABY ; WESTAVIK HARRY

Inventor(s): (std): WESTAVIK HARRY ; VEBENSTAD PETTER AABY ; ØSTVIK STEIN OVE ; MISIMI EKREM ; KJOLAS FRODE HAKON ; BONDØ MORTEN STENE ; BAR EIRIN MARIE SKJONDAL ; ØESTVIK STEIN OVE ; KJOELAAS FRODE HAAKON ; BONDØE MORTEN STEEN ; BAR EIRIN MARIE SKJOENDAL

Agent(s): CURO AS

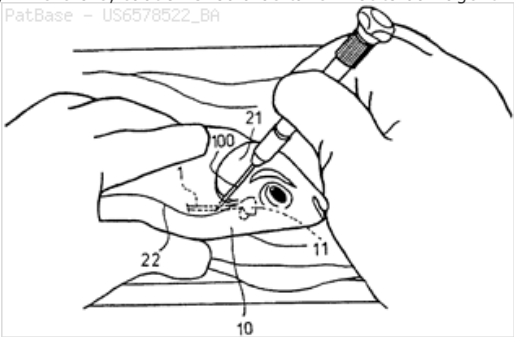
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Title: Preservation method of aquatic animals

Abstract: An idealistic preservation method of aquatic animals capable of reliably suppressing motion functions of large quantities of living **fish**, etc., and transporting **fish** while keeping freshness and quality for a long time during transportation so that large quantities of living **fish**, etc., can be transported in a small space. **Fish** (10) is scooped with a landing net from a tank and is laid down on a table. An operator preferably wears wet gloves lest his body temperature damages **fish**. While being held down by one hand, **fish** (10) is pierced from inside an operculum (21) through the spinal cord (1) by a tool (100). The piercing position is near the medulla oblongata (11) and is extremely effective for lowering the motion function. If the medulla oblongata (11) itself is damaged, **fish** (10) will die completely. Therefore, caution should be taken not to damage it.

Classifications:

International (IPC 8-9): A01K61/00 A01K63/02 A01K63/06 A01N1/02 A22B3/08 (Advanced/Invention); A01K61/00 A01N1/02 (Advanced/Non-invention); A01K61/00 A01K63/02 A01K63/06 A01N1/02 A22B3/00 (Core/Invention)
International (IPC 1-7): A01K61/00 A01K63/02 A01K63/06 A01N1/02 A22B3/08
CPC: A01K63/02 A22B3/083 Y02A40/81 Y02A40/812
European: A01K63/02 A22B3/08B
US: 119/203 43/54.1 43/541



Family:

Publication number	Publication date	Application number	Application date
AU199916868 A1	19990927	AU19990016868	19981221
AU199960067 A1	20000501	AU19990060067	19991012
AU199960067 A5	20000501	AU19990060067	19991012
JP11318268 A2	19991124	JP19980290183	19981013
JP2000166420 A2	20000620	JP19980350864	19981210
JP2005230021 A2	20050902	JP20050146107	20050519
JP3706879 B2	20051019	JP19980290183	19981013
JP3729844 B2	20051221	JP20050146107	20050519
JP3998110 B2	20071024	JP19980350864	19981210
US6578522 BA	20030617	US20000623763	20001116
WO0021361 A1	20000420	WO1999JP05589	19991012
WO9945766 A1	19990916	WO1998JP05834	19981221

Priority:

JP19980106859 19980312 JP19980290183 19981013 JP19980350864 19981210
WO1998JP05834 19981221 WO1999JP05589 19991012 JP20050146107 20050519

Probable Assignee: TOBU TOSHIRO

Assignee(s): (std): TOBU TOSHIRO ; TOSHIRO URABE ; URABE TOSHIRO

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Inventor(s): TOSHIRO URABE

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CR CU CY CZ DE DK DM EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Title: METHOD AND APPARATUS FOR KILLING AND BLEEDING **FISH**

Abstract: Apparatus (11) comprises a **fish** restraining device (18), a **fish** positioning device (19), a killing device (13) for fatally injuring the brain of a **fish** (14), a device (15) for cutting the throat of the **fish** (14) and a device (16) for opening the gills of the **fish** (14). Killing device (13) for fatally injuring the brain of **fish** (14) comprises a blade or spike (20) designed to pierce the brain or spinal cord. Alternatively the device (13) may comprise an impacting device to crush the brain or it may comprise a laser or any other suitable electrical device to fatally injure the brain of the **fish** (14). Methods of using apparatus (11) are also claimed.

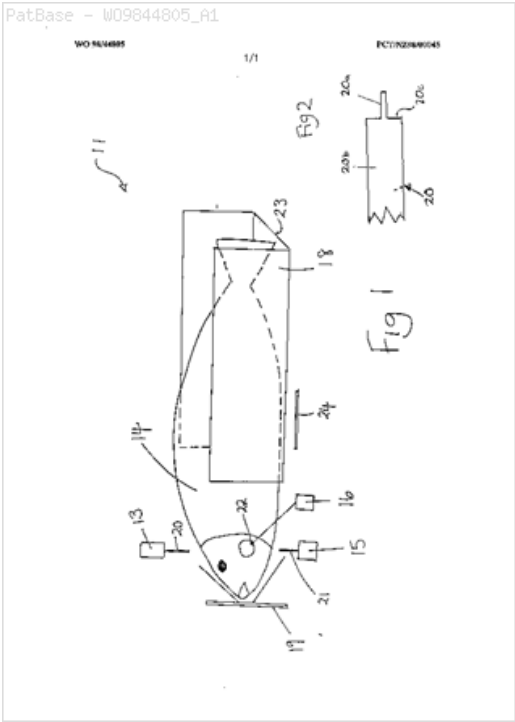
Classifications:

International (IPC 8-9): A22B3/08 A22C25/00 (Advanced/Invention);
A22B3/00 A22C25/00 (Core/Invention)

International (IPC 1-7): A22B3/08 A22C25/12

CPC: A22B3/005 A22B3/083 A22C25/00

European: A22B3/00B A22B3/08B A22C25/00



Family:

Publication number	Publication date	Application number	Application date
AU199870867 A1	19981030	AU19980070867	19980403
WO9844805 A1	19981015	WO1998NZ00045	19980403

Priority:

NZ19970314524 19970404 WO1998NZ00045 19980403

Probable Assignee: INDAC LTD

Assignee(s): (std): HITCHINS MICHAEL W ; INDAC LTD

Inventor(s): (std): HITCHINS MICHAEL W

Inventor(s): MICHAEL W HITCHINS

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GE GH GM GN GR GW HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZW