

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NUNC PRO TUNC ASSIGNMENT
EFFECTIVE DATE:	01/01/2023
CONVEYING PARTY DATA	
Name	Execution Date
NAVICO HOLDING AS	03/10/2023
RECEIVING PARTY DATA	
Name:	NAVICO, INC.
Street Address:	4500 S. 129TH EAST AVENUE
Internal Address:	SUITE 200
City:	TULSA
State/Country:	OKLAHOMA
Postal Code:	74134-5885
PROPERTY NUMBERS Total: 3	
Property Type	Number
Application Number:	17703020
Patent Number:	11340349
Patent Number:	10371816
CORRESPONDENCE DATA	
Fax Number:	(803)255-9831
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	7044173000
Email:	ipdocket@nelsonmullins.com, chandel.vanlaere@nelsonmullins.com
Correspondent Name:	NELSON MULLINS RILEY & SCARBOROUGH LLP
Address Line 1:	301 S. COLLEGE ST., 23RD FLOOR
Address Line 2:	ONE WELLS FARGO CENTER
Address Line 4:	CHARLOTTE, NORTH CAROLINA 28202
ATTORNEY DOCKET NUMBER:	48379/09586
NAME OF SUBMITTER:	CHANDEL VAN LAERE FOR PATRICK L. KARTES
SIGNATURE:	/Chandel Van Laere/
DATE SIGNED:	10/12/2023
Total Attachments: 13	

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PATENT ASSIGNMENT

This is a CONFIRMATORY PATENT ASSIGNMENT ("Assignment") effective *nunc pro tunc* as of January 1, 2023, by and between Navico Holding AS, a limited liability company organized and existing under the laws of Norway ("Assignor") and Navico, Inc., a Delaware corporation ("Assignee").

RECITALS

WHEREAS, Assignor was the owner of all right, title and interest in and to the patents and patent applications set forth in Exhibit A and all continuations, continuations-in-part, divisionals, extensions, substitutions, reissues, re-examinations and renewals thereof (the "Patent Assets") and all goodwill associated therewith; and

WHEREAS, pursuant to an Intellectual Property Sales and Purchase Agreement entered into by and between Assignee and Assignor effective January 1, 2023, Assignee desired to and did acquire, and Assignor did contribute and assign, all right, title and interest in and to the Patent Assets and the applications and registrations therefor, together with the goodwill associated therewith.

NOW, THEREFORE, in consideration of the mutual covenants and premises set forth in the Purchase Agreement, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Assignor hereby acknowledges and ratifies the conveyance, assignment and delivery of the Patent Assets and otherwise assigns, transfers and conveys to the Assignee and its successors and assigns all of the right, title and interest of the Assignor in and to (a) any and all inventions described in the Patent Assets, in any form or embodiment; (b) any and all applications related thereto or patents issuing therefrom, filed in any country, including the right to file applications in countries other than the country of priority filing under the provisions of any international convention; (c) any and all improvements on said invention or inventions now or hereafter made by Assignee, its successors and assigns; (d) any and all patents, including reissues and extensions thereof, to be obtained in any country upon said invention, inventions or improvements, and any and all continuing applications, including divisional, continuation and continuation-in-part applications, substitute applications, and applications claiming benefit of an earlier filed provisional application, which may be filed upon said invention, inventions or improvements in any country; and (e) all claims for damages by reason of past infringement of the inventions described in the Patent Assets and the patents issuing therefrom, with the right to sue for and collect damages.

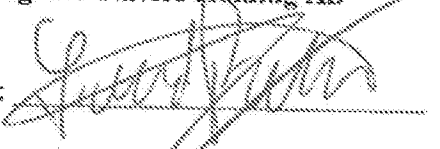
This Assignment is effective *nunc pro tunc* as of January 1, 2023.

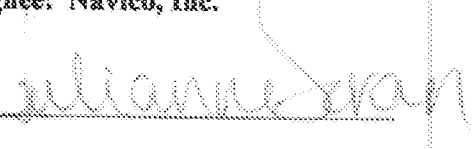
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IN WITNESS WHEREOF, the parties have executed this confirmatory instrument on the date(s) indicated below.

Assignor: Navico Holding AS

Assignee: Navico, Inc.

By: 

By: 

Name: Jeroen van de Polder

Name: Julianne Foran

Title: Director

Title: Director

Date: March 10, 2023

Date: March 10 2023

Exhibit A - Patents (Active)

Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
A TRANSDUCER ARRAY HAVING A TRANSCIEVER	US	US 14/618,287	10Feb15	US2016023288A1	11Aug16	US9886938	06Feb18
A TRANSDUCER ARRAY HAVING A TRANSCIEVER	US	US 15/848,648	20Dec17	US20180114515 A1	26Apr18	US 10319356	13Jun19
AQUATIC GEOGRAPHIC INFORMATION SYSTEM	US	US 13/948,904	23Jul13	US20140032479A1	30Jan14	US9104697	11Aug15
ADAPTIVE BEAMFORMER FOR SONAR IMAGING	US	US 14/857,337	17Sep15	US20170682739A1	23Mar17	US 10024897	17Jul18
ADAPTIVE BEAMFORMER FOR SONAR IMAGING	AU	2016227909	12Sep16			2016227909	05Sep18
ADAPTIVE BEAMFORMER FOR SONAR IMAGING	CA	2941477	09Sep16			2941477	15Jan19
ADAPTIVE BEAMFORMER FOR SONAR IMAGING	EP	163891678.4	16Sep16	3144700	23Mar17		
ADAPTIVE FREQUENCY CORRECTION FOR PULSE COMPRESSION RADAR	US	US 15/004,764	22Feb16	US20160216368A1	28Jul16	US 10054670	21Aug16
Adjustable Range Viewing of Sonar Imagery During Trip Replay	US	US 15/184,605	21Jan16	US20170361739A1	21Dec17	US 10385366	30Jul19
ADJUSTING PARAMETERS OF MARINE ELECTRONICS DATA	US	US 13/844,251	15Mar13	US20140002461A1	09Jan14	US9361693	07Jun16
Alert Zones for a Marine Environment	US	US 14/951,340	11Sep15	US2016077159A1	17Mar16	US 10054918	05Oct18
Alert Zones for a Marine Environment	US	US 16/121,976	05Sep18	US20190094164A1	03Jan19	US 11022684	01Jun21
AMPLITUDE ENVELOPE CORRECTION	US	US 18/718,064	20May15	US20150216366A1	28Jul15	US 10091540	19Jun18
ANALYZING MARINE TRIP DATA	US	US 14/461,349	15Aug14	US20150057929A1	26Feb15	US9615562	11Apr17
ANCHORING SYSTEMS AND METHODS FOR MARINE VESSEL	US	US 17/184,905	25Feb21	US20220268585A1	25Aug22		
ANCHORING SYSTEMS AND METHODS FOR MARINE VESSEL	EP	22187990.5	18Feb22				
Angular Offset Transducers in Multiple Transducer Sonar System	US	US 16/144,367	27Sep18	US20180163534 A1	02Apr20	US 11137495	05Oct21
ANTENNA ASSEMBLY	US	US 12/269,245	12Nov08	US20100137923A1	13May10	US8591369	26Nov13
Automatic Navigation of a Marine Environment Area	AU	2022202006	23Mar22				
Automatic Navigation of a Marine Environment Area	US	US 17/215,492	31Mar21	US2022-0315178-A1	06Oct22		
Automatic Navigation of a Marine Environment Area	CA	3,153,584	28Mar22				
Automatic Navigation of a Marine Environment Area	EP	22162327.5	15Mar22				
Automatic Navigation of a Marine Environment Area	NZ	786470	23Mar22				
AUTOPILOT NAVIGATION	US	US 14/693,753	22Apr15	US20160311511A1	27Oct16	US9545989	17Jan17
Autopilot Trolling Using Drift	US	US 17/863,577	13Jul21				
Autopilot Turn Patterns and Routes	US	US 15/192,138	24Jun15	US20170370724 A1	30Dec17	US 10460484	29Oct19
BASE STATION FOR MARINE DISPLAY	US	US 16/437,935	11Jun19	US20190293747A1	26Sep19		
Battery and Performance Optimization Mode for Trolling Motor Operation	US	US 16/668,449	30Oct19	US20210123963A1	06May21	US 11570517	28Jun22
Battery and Performance Optimization Mode for Trolling Motor Operation	US	US 17/724,564	20Apr22	US20220342537A1	04Aug22		
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	AU	2021205104	16Jul21				
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	AU	2022204376	06Jul22				
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	US	US 16/984,106	31Jan20	US20200850256A1	03Feb22		
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	US	US 17/159,199	27Jan21				
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	US	US 17/713,418	27Jan21				
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	CA	3,321,772	10Jun21				
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	EP	21177691.4	04Jun21				
Beamforming Sonar System with Improved Sonar Image Functionality, and Associated Methods	JP	2021-100098	16Jun21	US20210227815 A1	29Jul21		
Bonded Instrument Display Cluster for Marine Vessel	AU	2019348942	03Mar21				
Bonded Instrument Display Cluster for Marine Vessel	US	US 16/582,397	25Sep19	US20200162057 A1	02Apr20	US 11068077	18May21
Bonded Instrument Display Cluster for Marine Vessel	EP	19813924.7	18Feb21	3023990	26May21		
BRACKET SYSTEM FOR MULTIPLE SONAR TRANSDUCER ARRAY HOUSINGS	US	US 29/850,408	19Aug22				
CASTABLE SENSOR DEVICE	US	US 16/007,058	13Jun18	US20180288990A1	11Oct18	US 1000021	11May21
CASTABLE SENSOR DEVICE	US	US 17/230,108	14Apr21				
CASTABLE SONAR DEVICE	US	US 14/806,635	22Jul15	US20170021676A1	26Jan17	US 10054684	21Aug18
CASTABLE SONAR DEVICES AND OPERATIONS IN A MARINE ENVIRONMENT	AU	2019261714	06Nov19				
CASTABLE SONAR DEVICES AND OPERATIONS IN A MARINE ENVIRONMENT	US	US 16/185,770	09Nov18	US20190572951 A1	07Mar19	US 10719077	21Jul20
CASTABLE SONAR DEVICES AND OPERATIONS IN A MARINE ENVIRONMENT	US	US 16/926,914	11Jul20	US20200341463	29Oct20		
CASTABLE SONAR DEVICES AND OPERATIONS IN A MARINE ENVIRONMENT	CA	3,060,987	06Nov19				
Combined Trim and Steering Trolling Motor System	US	US 17/490,184	30Sep21				
COMBINING RADAR DATA	US	US 14/784,093	12Feb16	US20160054432A1	28Feb16	US 10222454	05Mar18
COMMON BURST FOR PULSE COMPRESSION RADAR	US	US 14/829,582	18Aug15	US20160054477A1	25Feb16	US 10114116	30Oct18
Computing Device Mirroring on a Marine Electronic Device	US	US 16/191,880	15Nov18	US20200026417 A1	23Jan20	US 10899499	20Oct20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	AU	2018202173	27Mar18	2018202173	18Oct18	2018202173	23Aug19
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	AU	2019202550	12Apr19	2019202550	02May19	2019202550	08Oct20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	US	US 15/834,464	07Dec17	US20180281914 A1	06Oct18	US 10377459	13Aug19

Exhibit A - Patents (Active)

Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	US	US16/268,951	06Feb19	US20190233075 A1	01Aug19	US10864976	15Dec20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	CA	2999528	28Mar18	2999528	28Sep18	2999528	30Mar21
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	CA	3,198,178	28Mar18				
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	DE	EP178164726.4	27Mar18	69 2938 004 711.5	20May20	60 2018 604 711.5	20May20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	EP	EP178164726.4	27Mar18	3381790	03Oct18	3381790	03Oct18
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	FR	EP178164726.4	27Mar18	3381790	20May20	3381790	20May20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	FR	EP178164726.4	27Mar18	3381790	20May20	3381790	20May20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	GB	EP178164726.4	27Mar18	3381790	20May20	3381790	20May20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	IT	EP178164726.4 (502020600679918)	27Mar18	3381790	20May20	3381790	20May20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	NO	EP178164726.4	27Mar18	3381790	20May20	3381790	20May20
CONNECTION AND FEATURES FOR INTERCHANGEABLE NOSECONE FOR A TROLLING MOTOR	SE	EP178164726.4	27Mar18	3381790	20May20	3381790	20May20
CONTOUR INTERVAL CONTROL FOR AN AQUATIC GEOGRAPHIC INFORMATION SYSTEM	US	US14/673,318	30Mar15	US2015020500761	23Jun15	US9200882	01Dec15
CURSOR ASSIST MODE	US	US13/731,159	31Dec12	US20140013284A1	09Jan14	US9495065	15Nov16
DEPTH DISPLAY USING SONAR DATA	AU	2013291223	12Jan17			2015291223	14Jul15
DEPTH DISPLAY USING SONAR DATA	US	US14/798,148	13Jul15	US20160011318A1	14Jan16	US9329084	01Aug17
DEPTH DISPLAY USING SONAR DATA	DE	35767579.4	14Jul15			3170619	03Jun20
DEPTH DISPLAY USING SONAR DATA	EP	35767579.4	14Jul15			3170619	03Jun20
DEPTH DISPLAY USING SONAR DATA	FR	35767579.4	14Jul15			3170619	03Jun20
DEPTH DISPLAY USING SONAR DATA	FR	35767579.4	14Jul15			3170619	03Jun20
DEPTH DISPLAY USING SONAR DATA	GB	35767579.4	14Jul15			3170619	03Jun20
DEPTH DISPLAY USING SONAR DATA	IT	35767579.4	14Jul15			3170619	03Jun20
DEPTH DISPLAY USING SONAR DATA	SE	35767579.4	14Jul15			3170619	03Jun20
DETERMINING DISTANCE IN A SONAR IMAGE	US	US16/257,560	25Jan19	US20200381133A1	30Jun20	US11175893	18Nov21
Device for Steering a Trolling Motor and Method of the Same	US	US17/558,735	22Dec21				
DEVICES AND METHODS FOR LOCATING AND VISUALIZING UNDERWATER OBJECTS	US	US15/189,650	22Jun16	US20170816989A1	19Jan17	US9759813	12Sep17
DEVICES AND METHODS FOR LOCATING AND VISUALIZING UNDERWATER OBJECTS	US	US16/048,755	30Jul18	US20180329056A1	15Nov18	US10585195	10Mar20
DEVICES AND METHODS FOR LOCATING AND VISUALIZING UNDERWATER OBJECTS	US	US16/745,557	17Jan20	US20200150269A1	14May20	US10884123	05Jan21
DISPLAY OF ROUTES TO BE TRAVELLED BY A MARINE VESSEL	US	US13/965,668	18Aug13	US20150051835A1	09Feb15	US9909891	05Mar18
DISPLAYING LAYLINES	US	US14/029,339	17Sep13	US20140129131A1	08May14	US9142239	10Nov15
DISPLAYING LAYLINES	US	US14/936,424	09Nov15	US20160081606A1	03Mar16	US9482537	01Nov16
DISPLAYING LAYLINES	DE	EP13681126.1	26Nov13	2917895 A1	15Sep15	60 261 3 081 338 B	06Apr22
DISPLAYING LAYLINES	FR	EP13681126.1	26Nov13	2917895 A1	15Sep15	2917895	06Apr22
DISPLAYING LAYLINES	GB	EP13681126.1	26Nov13	2917895 A1	15Sep15	2917895	06Apr22
DISPLAYING LAYLINES	IT	EP13681126.1	26Nov13	2917895 A1	15Sep15	2917895	06Apr22
DOWNSCAN IMAGING SONAR	AU	2010/273842	22Jun10	2011008430 A1		2010273842	26Mar15
DOWNSCAN IMAGING SONAR	AU	2015/201220	10Mar15	3064299	07Sep16	2015201220	08Jun17
DOWNSCAN IMAGING SONAR	US	US12/460,139	14Jul09	US20110033485A1	20Jan11	US8395840	06Nov13
DOWNSCAN IMAGING SONAR	US	US13/261,957	22Nov13	US20120106308A1	03May12	US8514659	26Aug13
DOWNSCAN IMAGING SONAR	US	US13/627,318	26Sep12	US20130821876A1	30Jan13	US8605550	15Dec13
DOWNSCAN IMAGING SONAR	US	US14/072,539	05Nov13	US20140084024A1	06Mar14	US9541643	10Jan17
DOWNSCAN IMAGING SONAR	DE	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
DOWNSCAN IMAGING SONAR	EP	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
DOWNSCAN IMAGING SONAR	FR	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
DOWNSCAN IMAGING SONAR	GB	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
DOWNSCAN IMAGING SONAR	IT	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
DOWNSCAN IMAGING SONAR	NO	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
DOWNSCAN IMAGING SONAR	SE	EP100728530.6	22Jun10	2454607 A1	29Mar17	2454607	29Mar17
ECOLOGICAL AIDED MARINE NAVIGATION	EP	22425018.1	23Aug22				
ELEVATION ADJUSTMENT FOR AN AQUATIC GEOGRAPHIC INFORMATION SYSTEM	US	US14/673,406	30Mar15	US20150204645A1	23Jun15	US9213722	15Dec15
ENGINE DETECTION	US	US14/612,925	03Feb15	US20160225195A1	04Aug16	US9728013	08Aug17
EVENT TRIGGERING AND AUTOMATIC WAYPOINT GENERATION	AU	201928381	17Dec19				
EVENT TRIGGERING AND AUTOMATIC WAYPOINT GENERATION	US	US16/229,655	21Dec18	US20190120959A1	23Apr19		
EVENT TRIGGERING AND AUTOMATIC WAYPOINT GENERATION	CA	3,065,818	30Dec19				
EVENT TRIGGERING AND AUTOMATIC WAYPOINT GENERATION	EP	39218000.8	19Dec19	3674745	01Jul20		
EVENT TRIGGERING USING SONAR DATA	US	US18/566,513	10Dec14	US20150179022A1	16Jun16	US10451732	23Oct19
EXPORT USER DATA FROM DEFINED REGION	US	US13/791,305	08Mar13	US20140013268A1	09Jan14	US9646039	19Dec17
EXTRUDED SONAR CHASSIS	US	US14/718,959	20May15	US20160343365A1	24Nov16	US9905214	27Feb18
FIGURE OF MERIT TUNING FOR SONAR	US	US17/946,263	18Sep22				
FISHING AND SAILING ACTIVITY DETECTION	US	US14/195,610	03Mar14	US20150057965A1	26Feb15	US10383322	20Aug16
FISHING DATA SHARING AND DISPLAY	US	US14/280,373	16May14	US20150058277A1	26Feb15	US9992967	12Jun18

Exhibit A - Patents (Active)

Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
FISHING STATISTICS DISPLAY (HEAT MAP)	US	US14/107,933	16Dec13	US20150054828A1	26Feb15	US9439431	13Sep16
FISHING SUGGESTIONS	US	US14/461,393	16Aug14	US20150058323A1	26Feb15	US10952420	21Mar21
FIXED TROLLING MOTOR HEAD DISPLAY	AU	202020248	14Jan20				
FIXED TROLLING MOTOR HEAD DISPLAY	CA	3067675	13Jan20				
FIXED TROLLING MOTOR HEAD DISPLAY	US	US16/298,123	11Mar19	US20200262525 A1	28Aug20	US10966615	02Feb21
FIXED TROLLING MOTOR HEAD DISPLAY	US	US16/276,657	14Feb19	US20200262530 A1	28Aug20	US11021219	01Jan21
Foot Pedal for a Trolling Motor Assembly	US	US15/035,752	08Dec17	US20160178952 A1	13Jun19	US10513323	24Dec19
Foot Pedal for a Trolling Motor Assembly	US	US16/276,633	14Feb19	US20190176993 A1	13Jun19	US10942781	24Nov20
Foot Pedal for a Trolling Motor Assembly	US	US16/676,795	07Nov19	US20200279943A1	05Mar20	US11220517	11Jan22
Foot Pedal for a Trolling Motor Assembly	US	US17/543,402	07Dec21	US-2022-0089267-A1	24Mar22		
Forming a Composite Down Sonar Image	US	US18,284,517	29Nov18	US2020-0041632-A1	06Feb20	US11262440	04Mar22
FORWARD DEPTH DISPLAY	US	US14/495,367	24Sep14			US9257804	23Feb16
FORWARD DEPTH DISPLAY	US	US15/018,192	08Feb16	US20160153785A1	02Jun16	US9629321	28Nov17
FREQUENCY CORRECTION FOR PULSE COMPRESSION RADAR	US	US15/064,252	22Jan16	US20160316367A1	28Jul16	US10215842	26Feb19
Fuel Range Overlay	US	US15/642,465	06Jul17	US20190311266A1	10Jan19	US10939329	27Aug19
GENERATING A MAP USING RADAR DATA	US	US14/239,953	20Jun14	US20150369914A1	24Dec15	US9581089	28Feb17
Geographically Augmented Sonar	US	US17/856,205	01Mar22				
GUIDE SYSTEM FOR ASSISTANCE IN MOUNTING A SONAR TRANSDUCER ASSEMBLY OR HOUSING	US	US17/715,290	07Apr22				
HANDHELD RADAR	US	US12/094,635	23Nov06	US20080167593A1	02Jun09	US7973704	05Jul11
HEADING CONTROL USING MULTIPLE AUTOPILOTS	US	US14/712,632	14May15	US20160334792A1	17Nov16	US9594375	14Mar17
HEAT PIPES FOR THERMAL DISSIPATION IN RADAR DEVICES	US	US17/847,643	23Jun22				
HEAT PIPES FOR THERMAL DISSIPATION IN RADAR DEVICES	EP	2242012.6	18Mar22				
Impact Detection Devices and Methods	US	US15/963,209	21Nov18	US20180331779A1	31Oct19	US11221403	11Jan22
Improved Radar Display Features	AU	2021277998	29Nov21				
Improved Radar Display Features	CA	3,139,736	23Nov21				
Improved Radar Display Features	US	US17/106,280	30Nov20	US-2023-0171019-A1	02Jun22		
Improved Radar Display Features	EP	21209474.2	22Nov21				
Improved Radar Display Features	NZ	782811	29Nov21				
Improved Sonar Display Features	AU	2021287925	27Oct21				
Improved Sonar Display Features	CA	3,134,172	13Oct21				
Improved Sonar Display Features	US	US17/106,272	30Nov20	US-2023-0171043-A1	02Jun22		
Improved Sonar Display Features	EP	21199986.7	29Sep21				
INSTRUMENTATION INTERFACE DISPLAY CUSTOMIZATION	US	US11/156,823	20Jun05	US20070606191A1	04Jan07	US7441189	21Oct08
Integrated Display for a Trolling Motor	US	US05/192,154	14Jun16	US20170195436 A1	14Dec17	US9889212	12Oct17
Integrated Display for a Trolling Motor	US	US15/786,975	18Oct17	US20180850773 A1	22Feb18	US10416472	17Sep19
INTEGRATED MAPPING AND AUDIO SYSTEMS	US	US10/937,011	08Sep04	US200600550613A1	09Mar06	US7236426	28Jun07
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	AU	2010/273841	22Jun10	2015273841 A1		2019273841	03Sep15
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	AU	2015/203514	22Jun15	2016273841 A1	02Feb13	201010273841B2	03Sep15
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	US	US12/460,993	14Jul09	US20110013484A1	20Jan11	US8306499	30Oct12
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	US	US13/627,546	26Sep12	US20150253425A1	18Sep15	US9223022	29Dec15
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	US	US14/668,487	25Mar15	US20150312536A1	29Oct15	US10024961	17Jul18
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	DE	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	EP	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	FR	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	GB	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	IT	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	NO	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LINEAR & CIRCULAR DOWNSCAN IMAGING SONAR	SE	EP10729901.7	22Jun10	2454606 A1		2454606	29Mar17
LIVE DOWN SONAR SYSTEMS AND METHODS	US	US17/891,354	19Aug22				
LIVE DOWN SONAR VIEW	US	US17/891,346	19Aug22				
Livewell Operation and Control for a Vessel	US	US15/628,216	20Jun17	US 2018-0365246 A1	30Dec18	US10990622	27Apr21
LIVEWELL OPERATION AND CONTROL FOR A WATERCRAFT	US	US17/829,317	31May22				
Marine Chart and Sonar Image Presentation Systems and Methods	AU	2022206706	03Feb22				
Marine Chart and Sonar Image Presentation Systems and Methods	CA	3,145,943	18Jan22				
Marine Chart and Sonar Image Presentation Systems and Methods	US	US17/174,415	12Feb21	US20230165068 A1	03Jun21	US11500654	15Nov22
Marine Chart and Sonar Image Presentation Systems and Methods	US	US17/965,135	13Oct22				
Marine Chart and Sonar Image Presentation Systems and Methods	EP	22153781.4	27Jan22				
Marine Chart and Sonar Image Presentation Systems and Methods	NZ	784855	03Feb22				
MARINE DEVICE POSITION ADJUSTMENT ASSEMBLY	US	US17/483,773	01Sep21				
Marine Display Device	US	US29/810,707	24Nov21				
MARINE ELECTRONIC DEVICE FOR GENERATING A ROUTE BASED ON WATER DEPTH	AU	2019213419	09Aug19				
MARINE ELECTRONIC DEVICE FOR GENERATING A ROUTE BASED ON WATER DEPTH	CA	3051692	09Aug19				
MARINE ELECTRONIC DEVICE FOR GENERATING A ROUTE BASED ON WATER DEPTH	US	US16/101,814	13Aug16	US20200949507-A1	13Feb20	US11022441	01Jun21
MARINE ELECTRONIC DEVICE FOR GENERATING A ROUTE BASED ON WATER DEPTH	SE	1950922-3	09Aug19			SE 543 985 C2	19Oct21

Exhibit A - Patents (Active)

Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
MARINE ELECTRONIC DEVICE FOR PRESENTMENT OF NAUTICAL CHARTS AND SONAR IMAGES	AU	2019203322	13May19	2019203322	10Dec19	2019203322	08Apr21
MARINE ELECTRONIC DEVICE FOR PRESENTMENT OF NAUTICAL CHARTS AND SONAR IMAGES	CA	3042656	08May19				
MARINE ELECTRONIC DEVICE FOR PRESENTMENT OF NAUTICAL CHARTS AND SONAR IMAGES	US	US15/982,362	17May18	US20190353744-A1	21Nov19	US109149810	09Feb21
MARINE ELECTRONIC DEVICE FOR PRESENTMENT OF NAUTICAL CHARTS AND SONAR IMAGES	US	US17/123,189	16Dec20	US202101431048-A1	13May21	US11435427	06Sep22
MARINE ELECTRONIC DEVICE FOR PRESENTMENT OF NAUTICAL CHARTS AND SONAR IMAGES	EP	19174327.7	14May19	3572837	27Nov19		
Marine electronic device for presentment of sonar images	US	US16/051,983	01Aug18	US 2020-0041631-A1	06Feb20	US1199615	14Dec21
Marine Electronic Display Device with Corner Design	US	US29/816,708	24Nov21				
Marine Electronics Display Device	US	US29/861,946	31Aug18			US0922222	15Jun21
MARINE RADAR SYSTEM WITH THREE-DIMENSIONAL MEMORY	US	US12/359,478	28Jan09	US20100184299A1	29Jul10	US7848075	23Nov10
Marine Vessel Tracking Assistance	US	US17/574,782	13Jan22				
Media Door Assembly for a Marine Electronics Device	US	US16/119,019	31Aug18			US19405445	03Sep19
METHOD AND SYSTEM FOR AUTOMATICALLY DETERMINING WATER-LEVEL OFFSET, AND ADJUSTING A NAUTICAL CHART FOR SUCH OFFSET	US	US13/804,004	14Mar13	US20140269191A1	18Sep14	US9329267	03May16
METHOD, APPARATUS AND COMPUTER PROGRAM PRODUCT FOR SYNCHRONIZING CURSOR EVENTS	US	US12/363,495	30Jan09	US20100199225A1	05Aug10	US8601401	03Dec13
METHODS AND APPARATUS FOR CAPTURING DATA USING A MARINE ELECTRONICS DEVICE	US	US14/964,083	16Dec15	US20170171316A1	15Jun17	US10280823	05Feb19
METHODS AND APPARATUS FOR CAPTURING DATA USING A MARINE ELECTRONICS DEVICE	US	US16/241,238	07Jan19	US2019-034496A1	09May19	US10609149	31Mar20
METHODS AND APPARATUS FOR CONSTRUCTING A 3D SONAR IMAGE OF OBJECTS IN AN UNDERWATER ENVIRONMENT	US	US15/098,503	14Apr16	US20160306040A1	20Oct16	US10281577	27May19
METHODS AND APPARATUS FOR CONSTRUCTING A 3D SONAR IMAGE OF OBJECTS IN AN UNDERWATER ENVIRONMENT	US	US16/205,889	30Nov18	US20190094356A	28Mar19	US10551497	04Feb20
METHODS AND APPARATUS FOR RECONSTRUCTING A 3D SONAR IMAGE	AU	2016201479	07Mar16	2016153785	02Jun16	2016201479	23Nov17
METHODS AND APPARATUS FOR RECONSTRUCTING A 3D SONAR IMAGE	CA	2922761	04Mar16			2922761	24Apr18
METHODS AND APPARATUS FOR RECONSTRUCTING A 3D SONAR IMAGE	US	US15/960,932	03Mar16	US20160259052A1	08Sep16	US10061025	28Aug18
METHODS AND APPARATUS FOR RECONSTRUCTING A 3D SONAR IMAGE	EP	16159017.9	07Mar16				
MOTION CAPTURE WHILE FISHING	US	US14/461,394	16Aug14	US20150055827A1	26Feb15	US9596839	21Mar17
MOUNTING ASSEMBLY	US	US10/630,300	30Jun03	US20040262478A1	30Dec04	US7063297	29Jun06
MOUNTING ASSEMBLY	US	US11/283,259	15May08	US20080227878A1	14Dec08	US7520481	21Apr09
MOUNTING BRACKET FOR A MARINE DISPLAY	US	US14/628,157	26Feb15	US20160249468A1	25Aug16	US9549478	17Jan17
Multi-Orientation Sonar Transducer Array System	US	US29/850,407	19Aug22				
MULTIPLE AUTOPILOT INTERFACE	US	US14/628,155	20Feb15	US20160348309A1	25Aug16	US10025332	17Jul18
MULTIPLE RANGES FOR PULSE COMPRESSION RADAR	US	US14/829,577	19Aug15	US201600874162A1	15Mar16	US10210069	06Nov18
NETWORKING METHOD AND NETWORK FOR MARINE NAVIGATION DEVICES	US	US16/967,962	18Oct04	US7430461A		US7430461	30Sep08
OPERATING A SONAR TRANSDUCER	US	US18/566,504	10Dec14	US20160170013A1	16Jun16	US10324175	18Jun19
OPERATING MULTIPLE AUTOPILOTS	US	US14/633,073	26Feb15	US20160252906A1	01Sep16	US9894374	14Mar17
Orientation Device for Marine Sonar Systems	US	US17/731,383	28Apr22	US 2022-0373663-A1	24Nov22		
Passive Networked Communication Protocols for the Marine Environment	US	US17/528,225	17Nov21				
POLYGON CREATION FOR AN AQUATIC GEOGRAPHIC INFORMATION SYSTEM	US	US14/673,344	30Mar15	US20150204075A1	23Jun15	US9367565	14Jun16
PORTABLE ELECTRONIC DEVICE	US	US28/210,723	05Aug04			USD518796	04Apr06
Presenting objects in a sonar image of an underwater environment	US	US16/925,413	10Jun20	US20200341408A1	29Oct20		
QUICK SPLIT MODE	US	US13/791,731	08Mar13	US20140013259A1	09Jan14	US9442636	13Sep16
RADAR ARRAY	US	US29/481,125	31Jan14			USD738868	15Sep15
RADAR BEAM SHARPENING SYSTEM AND METHOD	US	US13/868,599	25Oct12	US2013/0307229A1	21Nov13	US9182482	10Nov15
RADAR CLUTTER SUPPRESSION SYSTEM	US	US13/474,289	17May12	US2013/0293361A1	22Nov12	US9213068	15Oct15
RADAR CLUTTER SUPPRESSION SYSTEM	US	US14/617,326	09Feb15	US2015/0153446A1	04Jun15	US9213089	15Dec15
RADAR INSTALLATION	AU	2084/219,748	09Mar04	2084219748 A1		2084219748 B2	16Feb07
RADAR INSTALLATION	NZ	524757	09Mar04	524757		524757	13Jul06
RADAR INTERFERENCE MITIGATION	US	US14/791,753	06Jul15	US2017/0618344A1	12Jan17	US9953112	24Apr18
RADAR SIGNAL GENERATOR	US	US14/714,808	18May15	US2016/0252806A1	01Sep16	US9810772	07Nov17
RADAR SYSTEM AND METHODS	US	US18/231,436	31Mar14	US2015/0153442A1	04Jun15	US9645226	06May17
RADAR TRANSCIVER WITH A SWITCHED OSCILLATOR	US	US15/961,400	24Apr18	US2019/0324118-A1	24Oct19	US10935631	02Feb21
Radar Waveguide and Choke Assembly	US	US17/327,261	29Nov21				
RANGE SIDE LOBE SUPPRESSION	US	US14/463,448	19Aug14	US2017/0102453A1	13Apr17	US9735973	22Aug17
Reflective Surface Beamforming	US	US17/955,887	09Sep22				
REPORTING FOR AN AQUATIC GEOGRAPHIC INFORMATION SYSTEM	US	US14/673,267	30Mar15	US20150205895A1	23Jun15	US9361514	07Jun16
RESIDUE INDICATORS	US	US13/886,839	03May13	US2014/0292190A1	18Sep14	US9122366	01Sep15
RF CHANNEL CALIBRATION FOR NON-LINEAR FM WAVEFORMS	US	US10/788,932	27Feb04	US2005/0190150A1	01Sep05	US7019686	28Mar06
Rotating Radar System Using MIMO Radar Processing	US	US16/529,625	24Jun19	US2021/0835967-A1	30Jan21	US11372679	28Jun22
Sidescan Sonar Imaging System	AU	2021229158	07Sep21				

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Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
SIGNAL PROCESSING SYSTEM AND METHOD	US	US13/389,153	01Jul10	US2013028085A1	08Nov12	US9442191	13Sep16
SINGLE-ANTENNA FM/CW MARINE RADAR	US	US12/751,781	31Mar10	US20130132017A1	26May11	US9330651	11Dec12
SMART DEVICE MIRRORING	US	US14/665,702	27Apr15	US20160313955A1	27Oct16	US10311715	04Jun19
SONAR AND RADAR DISPLAY	US	US13/827,571	14Mar13	US20140269162A1	18Sep14	US9201142	01Dec15
SONAR ASSEMBLY FOR REDUCED INTERFERENCE	DE	10153403.4	31Jan13	2626721 A		602013623619.4	19Jul17
SONAR ASSEMBLY FOR REDUCED INTERFERENCE	US	US13/375,633	18Feb12	US20130308560A1	15Apr13	US9268020	23Feb16
SONAR ASSEMBLY FOR REDUCED INTERFERENCE	EP	13153403.4	31Jan13	2626721 A		2626721	19Jul17
SONAR ASSEMBLY FOR REDUCED INTERFERENCE	FR	13153403.4	31Jan13	2626721 A		2626721	19Jul17
SONAR ASSEMBLY FOR REDUCED INTERFERENCE	JP	2013/037,874	04Feb13	2013164423		5709914	13Mar15
SONAR AUTO DEPTH RANGE	US	US14/861,302	20Jul15	US20170523669A1	26Jan17	US9829573	28Nov17
Sonar Beam Footprint Presentation	AU	2022205934	11Feb22				
Sonar Beam Footprint Presentation	CA	3,146,162	19Jan22				
Sonar Beam Footprint Presentation	US	US17/179,460	19Feb21	US20230364926A1	25Aug22		
Sonar Beam Footprint Presentation	EP	22153851.5	28Jan22				
Sonar Beam Footprint Presentation	NZ	785066	11Feb22				
SONAR BEAM INDICATOR FOR A SONAR IMAGE	US	US16/357,710	19Mar19	US20200241133 A1	30Jul20	US11366222	21Jan22
SONAR BEAM SHAPE CONTROLLING HORN	AU	2022202301	06Apr22				
SONAR BEAM SHAPE CONTROLLING HORN	CA	3,155,477	14Apr22				
SONAR BEAM SHAPE CONTROLLING HORN	US	US17/352,515	21Jan21				
SONAR BEAM SHAPE CONTROLLING HORN	EP	22166494.9	04Apr22				
SONAR BEAM DISPLAY	US	US14/649,364	09Oct13	US20150667858A1	06Apr15	US1029124	14Nov19
SONAR MODULE USING MULTIPLE RECEIVING ELEMENTS	US	US13/767,612	14Feb13	US20140010045A1	09Jan14	US9348028	24May16
Sonar Ping Synchronization	US	US17/837,262	10Jun22				
SONAR PREVIEW MODE	US	US13/759,760	05Feb13	US2014010042A1	09Jan14	US9298079	29Mar16
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	DE	12195752.6	05Dec12	2602639 A		2602639	11Jul18
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	US	US13/913,574	07Dec11	US20130148471A1	13Jun13	US9182480	10Nov15
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	US	US14/936,163	09Nov15	US20160061951A1	03Mar16	US10247823	02Apr19
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	EP	12195752.6	05Dec12	2602639 A		2602639	11Jul18
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	FR	12195752.6	05Dec12	2602639 A		2602639	11Jul18
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	GB	12195752.6	05Dec12	2602639 A		2602639	11Jul18
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	NO	12195752.6	05Dec12	2602639 A		2602639	11Jul18
SONAR RENDERING SYSTEMS AND ASSOCIATED METHODS	SE	12195752.6	05Dec12	2602639 A		2602639	11Jul18
Sonar Steering for Lurus	US	US17/738,252	06May22				
SONAR STEERING SYSTEMS AND ASSOCIATED METHODS	AU	2022202065	25Mar22				
SONAR STEERING SYSTEMS AND ASSOCIATED METHODS	CA	3,154,369	07Apr22				
SONAR STEERING SYSTEMS AND ASSOCIATED METHODS	US	US17/326,409	21May21	US20220373662 A1	24Nov22		
SONAR STEERING SYSTEMS AND ASSOCIATED METHODS	EP	22163855.0	22Mar22				
SONAR SYSTEM USING FREQUENCY BURSTS (MULTIPLE FREQUENCY TRANSMIT BURSTS)	US	US14/638,693	04Mar15	US20150331104A1	19Nov15	US9241168	26Jan16
SONAR SYSTEM USING FREQUENCY BURSTS (MULTIPLE FREQUENCY TRANSMIT BURSTS)	US	US13/754,519	30Jan13	US20140019048A1	09Jan14	US9354312	31May16
SONAR SYSTEM WITH ACOUSTIC BEAM REFLECTOR	US	US17/987,910	03Nov20	US20230379961A1	02Sep21	US11397263	25Jul22
SONAR SYSTEM WITH INCREASED TRANSVERSE BEAM WIDTH	US	US17/067,757	03Nov20	US20230132264A1	06May21		
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	AU	2012/282741	31Jan14	2012282741		2012282741	17Mar16
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	AU	2016203271	19May16			2016203271	15Feb18
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	CA	2930271	17May19			2930271	24Apr18
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	DE	EP20120753268	10Jul12	2732445	21May14	602012037581.7	11Jul17
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	US	US13/183,034	14Jul11	US20130016580A1	17Jan13	US9142206	22Sep15
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	EP	16170480.6	19May16	3096159	23Nov16		
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	US	US14/717,458	20May15	US20160341827A1	24Nov16	US10114119	30Oct18
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	FR	EP20120753268	10Jul12	2732445	21May14	2732445	11Jul17
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	NZ	620500	31Jan14			620500	02Feb16
SONAR SYSTEMS AND METHODS USING INTERFEROMETRY AND/OR BEAMFORMING FOR 3D IMAGING	PL	EP20120753268	10Jul12	2732445	21May14	2732445	11Jul17
SONAR TILT ANGLE CONTROL STEERING DEVICE	AU	2022203157	11Mar22				
SONAR TILT ANGLE CONTROL STEERING DEVICE	CA	3,157,826	06Mar22				
SONAR TILT ANGLE CONTROL STEERING DEVICE	EP	22171956.2	05May22				
SONAR TILT ANGLE CONTROL STEERING DEVICE	US	US17/495,967	14Aug21	US20220373676 A1	24Nov22		
SONAR TRANSDUCER ARRAY HOUSING	US	US29/835,927	22Apr22				
SONAR TRANSDUCER ARRAY HOUSING	US	US29/835,928	22Apr22				
SONAR TRANSDUCER ARRAY HOUSING	US	US29/835,931	22Apr22				
SONAR TRANSDUCER ASSEMBLY	US	US13/827,329	14Mar13	US20140369191A1	19Sep14	US9335413	10May16
SONAR TRANSDUCER ASSEMBLY	US	US14/689,764	17Apr15	US20160377716A1	29Dec16	US10247822	02Apr19
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	US	US15/706,979	18Sep17	US20190086537 A1	21Mar19	US10545236	28Jan20

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Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	AU	2018226431	05Sep18	2018226431	04Apr19	2018226431	23Jan20
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	AU	2019264000	20Dec19			2019264000	30Sep21
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	CA	3017200	12Sep18	3017200	19Mar19	3017200	22Dec20
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	DE	18193263.3	07Sep18	3457171	24Nov21	60 2018 027 962.0	24Nov21
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	EP	18193263.3	07Sep18	3457171	24Nov21	3457171	24Nov21
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	EP	21206503.1	04Nov21	3982159	13Apr22		
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	US	0916716.814	17Dec19	US20200116899 A1	16Apr20	US11280904	22Mar22
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	FI	18193263.3	07Sep18	3457171	24Nov21	3457171	24Nov21
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	FR	18193263.3	07Sep18	3457171	24Nov21	3457171	24Nov21
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	PL	18193263.3	07Sep18	3457171	24Nov21	3457171	24Nov21
Sonar Transducer Assembly Having a Printed Circuit Board with Flexible Element Tabs	SE	18193263.3	07Sep18	3457171	24Nov21	3457171	24Nov21
SONAR TRANSDUCER HAVING A GYROSCOPE	US	0915963.355	26Apr18	US 2019-0321779-A1	31Oct21	US11353566	07Jun22
SONAR TRANSDUCER HAVING A GYROSCOPE	US	0917729.040	26Apr22	US20220252708-A1	11Aug22		
Sonar transducer having electromagnetic shielding	US	0516175.188	30Oct18	US20190364348 A1	28Feb19	US11289543	28Dec21
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	AU	2020202411	08Apr20			2020202411	14Oct21
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	AU	2021232789	16Sep21				
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	CA	3,077,458	30Mar20				
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	EP	20166827.3	30Mar20	3723829	14Oct20		
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	US	0515907.733	28Feb18	US20190365340	29Aug19	US11047964	29Jun21
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	US	0516182.529	12Apr19	US20190265354	29Aug19	US11105922	31Aug21
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	US	0517306.620	28Jun21	US20210356585A1	18Nov21		
SONAR TRANSDUCER HAVING GEOMETRIC ELEMENTS	NZ	763333	07Apr20			763333	28Jun22
Sonar Transducer Performance Optimization	US	05157783.491	13Oct17	US20190113619 A1	18Apr19	US11143758	12Oct21
Sonar transducer with acoustic speaker	US	0515479.955	05Apr17	US20180379595A1	04Oct18	US10412948	17Sep19
Split Beam Sonar	AU	2022206921	11Feb22				
Split Beam Sonar	CA	3,146,087	19Jan22				
Split Beam Sonar	EP	22154102.2	28Jan22	4947383	24Aug22		
Split Beam Sonar	US	0517349.846	16Jun21	US20220269927-A1	30Aug22		
Split Beam Sonar	NZ	785068	11Feb22				
Steering Assemblies and Associated Methods	AU	2022203017	05May22				
Steering Assemblies and Associated Methods	CA	T80	06May22				
Steering Assemblies and Associated Methods	EP	22171629.9	05May22				
Steering Assemblies and Associated Methods	US	0517704.268	29Mar22	US-2022-0373678-A1	24Nov22		
Steering Assemblies and Associated Methods	US	0517984.407	10Aug22				
SYSTEM AND METHOD FOR DETECTING PERSON OVERBOARD	US	0517785.686	16May22				
SYSTEM FOR INTERCHANGEABLE MOUNTING OPTIONS FOR A SONAR TRANSDUCER	EP	12753268.7	10Jul12			2732445	20Sep17
SYSTEM, DEVICES, METHODS FOR SENSING AND PROCESSING FISHING RELATED DATA	US	0513790.298	28Feb13	US20140071167A1	13Mar14	US9135731	15Sep15
Systems and Associated Methods for Generating a Fish Activity Report Based on Aggregated Marine Data	US	0515246.929	25Aug16	US2018059238A1	01Mar18	US10948577	18Mar21
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	AU	2019233884	29Oct19	2019233884	02Sep21		
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	AU	2021205099	16Jul21				
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	CA	3,060,540	29Oct19			3060540	01Mar22
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	DE	19205571.3	28Oct19	3647727	06May20	3647727	07Jul21
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	DE	21175074.0	20May21			3885705	07Sep22
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	EP	19205571.3	28Oct19	3647727	06May20	3647727	07Jul21
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	EP	21175074.0	20May21			3885705	07Sep22
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	FR	19205571.3	28Oct19			3647727	07Jul21

Exhibit A - Patents (Active)

Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	FR	21175074.0	20May21			3885705	07Sep22
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	US	0516175,247	30Oct18	US20200132467 A1	30Apr20		
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	GB	19285571.3	28Oct19			3647727	07Jul21
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	GB	21175074.0	20May21			3885705	07Sep22
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	IT	19285571.3	28Oct19			3647727	07Jul21
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	IT	21175074.0	20May21			3885705	07Sep22
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	NO	19285571.3	28Oct19			3647727	07Jul21
SYSTEMS AND ASSOCIATED METHODS FOR GENERATING NAVIGATION CHARTS AND NAVIGABLE ROUTES IN AN OPEN ENVIRONMENT	NO	21175074.0	20May21			3885705	07Sep22
Systems and associated methods for measuring the length of a fish	US	0515150,899	10May16	US20170330341A1	18Nov17	US9928611	27Mar18
Systems and Associated Methods for Measuring the Length of a Fish	US	05151490,411	18Apr17	US20170330342A1	16Nov17	US10275901	30Apr19
SYSTEMS AND ASSOCIATED METHODS FOR MONITORING VESSEL NOISE LEVEL	US	05161206,052	30Nov18	US20200174109A1	04Jun20	US11249176	15Feb22
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	AU	2016201371	12Feb16	3016201371	27Oct16	2016201371	21Sep17
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	CA	2922713	04Mar16			2,922,713	27Apr21
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	DE	36158998.1	07Mar16	3064958	07Sep16	602916014158	22May19
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	EP	36158998.1	07Mar16	3064958	07Sep16	EP3064958	22May19
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	FR	36158998.1	07Mar16	3064958	07Sep16	3064958	22May19
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	US	0514683,573	10Apr15	US20160259053A1	08Sep16	US9739884	22Aug17
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	GB	36158998.1	07Mar16	3064958	07Sep16	3064958	22May19
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	US	0514683,583	12Feb16	US20160259054A1	08Sep16	US9784832	10Oct17
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	US	0514683,578	10Apr15	US20160259049A1	08Sep16	US10618719	10Jul18
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	US	0515624,221	15May17	US20170285167A1	05Oct17	US11372102	28Jun22
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	US	05151490,489	18Apr17	US20170219703A1	03Aug17		
SYSTEMS AND ASSOCIATED METHODS FOR PRODUCING A 3D SONAR IMAGE	IT	36158998.1	07Mar16	3064958	07Sep16	3064958	22May19
Systems and associated methods for producing sonar image overlay	US	05150959,724	23Feb16	US20170242113A1	24Aug17	US10151829	11Dec18
SYSTEMS AND METHODS FOR CONTROLLING OPERATIONS OF MARINE VESSELS	AU	2021200630	01Feb21				
SYSTEMS AND METHODS FOR CONTROLLING OPERATIONS OF MARINE VESSELS	AU	2022263451	31Oct22				
SYSTEMS AND METHODS FOR CONTROLLING OPERATIONS OF MARINE VESSELS	CA	3,107,720	01Feb21				
SYSTEMS AND METHODS FOR CONTROLLING OPERATIONS OF MARINE VESSELS	EP	21154192.5	29Jan21	3865389	18Aug21		
SYSTEMS AND METHODS FOR CONTROLLING OPERATIONS OF MARINE VESSELS	US	05167791339	14Feb20	US20210255627	19Aug21		
SYSTEMS AND METHODS FOR DETERMINING BEST PATH FOR AVOIDANCE OF TERRAIN, OBSTACLES, OR PROTECTED AIRSPACE	US	05111367,671	03Mar06	US20060158350A1	20Jun06	US7589646	15Sep09
SYSTEMS AND METHODS FOR FREQUENCY-MODULATION CONTINUOUS-WAVE AND PULSE-COMPRESSION TRANSMISSION OPERATION	US	05131625,785	24Sep12	US20140070995A1	13Mar14	US9000974	07Apr15
SYSTEMS AND METHODS FOR MONITORING FISHING LURES COUPLED TO A MARINE VESSEL	US	05177720,476	14Apr22				
SYSTEMS AND METHODS FOR ROTATIONAL CONTROL OF A TROLLING MOTOR	US	05161795,661	20Feb20			US11046408	29Jun21

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Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
SYSTEMS AND METHODS FOR ROTATIONAL CONTROL OF A TROLLING MOTOR	US	US17/332,936	27May21	US20210284310-A1	16Sep21		
THERMOCLINE DISPLAY	US	US14/821,504	07Aug15	US2017039744A1	08Feb17	US9972310	15May18
TRACKING TARGETS ON A SONAR IMAGE (FISH CHASE)	US	US14/826,490	13Sep13	US20150678122A1	19Mar15	US10481259	19Nov19
Transducer and Trolling Motor Lighting Device	US	US14/8663,459	24Sep15	US20170889963A1	30Mar17	US10016348	16Jul18
Transducer and Trolling Motor Lighting Device	US	US15/995,619	22May18	US20180383679A1	04Oct18	US10578296	03Mar20
Transducer Assembly with Multiple Mounting Options	US	US15/711,252	21Jan17	US20190088339-A1	21Mar19	US11367426	21Jun22
Transducer mounting assembly	US	US15/222,202	28Jul16			US10325892	18Jun19
TRANSDUCER SUPPORT AND ASSOCIATED LOCK	US	US10/934,578	03Sep04	US20060950615A1	09Mar06	US7238862	12Jun07
Trip Replay Experience	US	US15/245,618	24Aug16	US20180063467A1	01Mar18	US9946197	29May18
TRIP REPLAY FOR AN AQUATIC GEOGRAPHIC INFORMATION SYSTEM	US	US14/671,459	30Mar15	US20150208327A1	23Jun15	US9438497	30Aug16
TROLLING MOTOR ASSEMBLY WITH DEPLOYMENT ASSISTANCE	US	US16/247990	15Jan19	US20200223521-A1	16Jul20	US10955972	22Mar21
Trolling Motor Foot Pedal	US	US29/624,307	31Oct17			USD866463	09Jun20
Trolling Motor Foot Pedal	US	US29/718,283	23Dec19			USD925805	30Jul21
Trolling Motor Foot Pedal Controlled Sonar Steering Device	AU	202204915	08Jul22				
Trolling Motor Foot Pedal Controlled Sonar Steering Device	CA	3,170,769	19Aug22				
Trolling Motor Foot Pedal Controlled Sonar Steering Device	EP	22183815.4	08Jul22				
Trolling Motor Foot Pedal Controlled Sonar Steering Device	US	US17/371,192	05Jul21				
Trolling Motor Foot Pedal Systems	AU	2019275521	03Dec19			2019275521	07Oct21
Trolling Motor Foot Pedal Systems	AU	2021211981	02Aug21				
Trolling Motor Foot Pedal Systems	CA	3663565	03Dec19				
Trolling Motor Foot Pedal Systems	CA	3168114	30Jun21				
Trolling Motor Foot Pedal Systems	EP	19213246.2	31Oct19				
Trolling Motor Foot Pedal Systems	US	US16/208,944	04Dec18			US10604222	31Mar20
Trolling Motor Foot Pedal Systems	US	US16/792,352	17Feb20	US20200180743-A1	11Jan20	US1130553	28Sep21
Trolling Motor Head	US	US29/624,310	31Oct17			USD866464	09Jun20
Trolling Motor Head	US	US29/718,264	23Dec19			USD948777	12Aug22
Trolling Motor Mount	US	US29/624,312	31Oct17			USD866465	09Jun20
Trolling Motor Mount	US	US29/718,262	23Dec19			USD948576	12Apr22
Trolling Motor Mount	US	US29/720,498	14Jan20				
TROLLING MOTOR ROTATIONAL CONTROL SYSTEMS	US	US17/842,896	17Jun22				
Trolling Motor Stabilizer	US	US17/589,925	31Jan23				
TROLLING MOTOR STEERING ASSEMBLY WITH STALL PREVENTION	US	US16/524,564	29Jul19	US20210631894-A1	04Feb21	US11068085	18May21
TROLLING MOTOR SYSTEM WITH DAMAGE PREVENTION FEEDBACK MECHANISM AND ASSOCIATED METHODS	US	US16/290,015	01Mar19	US20200172219-A1	04Jun20	US10717509	21Jul20
Trolling Motor with a Transducer Array	US	US15/214,968	20Jul16	US20160325814A1	18Nov16	US10597130	24Mar20
Trolling Motor with Local and Remote Control Modes	AU	2020201294	21Feb20			20201294	14Oct21
Trolling Motor with Local and Remote Control Modes	CA	3073753	14Feb20				
Trolling Motor with Local and Remote Control Modes	DE	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor with Local and Remote Control Modes	EP	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor with Local and Remote Control Modes	ES	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor with Local and Remote Control Modes	FR	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor with Local and Remote Control Modes	IT	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor with Local and Remote Control Modes	US	US16/283,272	22Feb19	US20200272152-A1	27Aug20	US10889725	26Oct20
Trolling Motor with Local and Remote Control Modes	PL	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor with Local and Remote Control Modes	SE	20158228.5	19Feb20			3699080	06Oct21
Trolling Motor With Wind Sensor	US	US15/244,387	23Aug16	US 2015/0051131-A1	01Mar18	US10150551	11Dec18
Unmanned vehicle control and operation in a marine environment	US	US16/001,384	06Jun18	US20180275649A1	27Sep18	US10725469	28Jul20
Unmanned vehicle control and operation in a marine environment	US	US16/527,402	31Jul19	US 2019-0384285-A1	19Dec19	US11275371	15Mar22
Unmanned vehicle control and operation in a marine environment	US	US16/527,363	31Jul19	US 2019-0384284-A1	19Dec19	US11314248	26Apr22
Unmanned vehicle control and operation in a marine environment	US	US16/939,152	27Jul20	US 2020-0363798-A1	19Nov20		
Unmanned Vehicle Control and Operation in a Marine Environment	US	US15/292,704	13Oct16			US10018002	10Jul18
UPDATING CONTOUR MAPS FOR BODIES OF WATER	US	US14/903,996	30Dec15	US20170192092-A1	06Jul17	US10371616	06Aug19
UPDATING CONTOUR MAPS FOR BODIES OF WATER	US	US16/488,090	21Jun19	US20200833472-A1	30Jan20	US11340349	24May22
UPDATING CONTOUR MAPS FOR BODIES OF WATER	US	US17/703,020	24Mar22	US 2023-0214453-A1	07Jul23		
USING MOTION SENSING FOR CONTROLLING A DISPLAY	US	US14/819,907	06Aug15	US20170384491-A1	09Feb17	US9836129	05Dec17
USING MOTION SENSING FOR CONTROLLING A DISPLAY	US	US15/813,782	15Nov17	US20180674596A1	13Mar18	US10114470	30Oct18
USING VOICE RECOGNITION FOR RECORDING EVENTS	US	US14/333,003	16Jul14	US20150058020A1	20Feb15	US9507562	29Nov16
Variable Range Estimation for a Marine Vessel	US	US17/862,437	28Feb22				
Variable Rate of Turn for a Trolling Motor	US	US15/443,599	27Feb17	US20180244361A1	30Aug18	US10336425	02Jul19
Vessel Data-Based Easy Routing	US	US17/871,835	22Jul22				
VIDEO RECORDING SYSTEM AND METHOD	US	US18/258,052	22Apr14	US20150655830A1	26Feb15	US9572335	21Feb17
Virtual anchor proximity system	US	US15/672,873	09Aug17	US20190547675-A1	04Feb19	US10745096	18Aug20
WADING STAFF WITH A SONAR TRANSDUCER	US	US16/354,315	15Mar19	US20200293701-A1	17Sep20	US11022687	01Jun21
WATERCRAFT ALIGNMENT SYSTEMS, AND ASSOCIATED METHODS	AU	2021277592	29Nov21				
WATERCRAFT ALIGNMENT SYSTEMS, AND ASSOCIATED METHODS	CA	3,139,724	23Nov21				
WATERCRAFT ALIGNMENT SYSTEMS, AND ASSOCIATED METHODS	EP	21209468.4	23Nov21				

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WATERCRAFT ALIGNMENT SYSTEMS, AND ASSOCIATED METHODS	NZ	792799	29Nov21				
WATERCRAFT ALIGNMENT SYSTEMS, AND ASSOCIATED METHODS	US	0517/106,288	30Nov20				
Watercraft Navigation Safety System	US	0515/187,038	20Jun16	US20170365175A1	21Dec17	US10017793	31Jul18
WAYPOINT GENERATION SYSTEMS AND METHODS	US	0514/367,962	18Jun14	US20150369610A1	24Oct15	US9442956	17Sep16
WEARABLE DEVICE FOR FISHING	AU	2014310326	12Feb16			2014310326	30Mar17
WEARABLE DEVICE FOR FISHING	CA	2921317	03Mar15			2921317	18Jul18
WEARABLE DEVICE FOR FISHING	DE	14784104.3	20Aug14	3035793	31Aug20	3035793	23Sep20
WEARABLE DEVICE FOR FISHING	EP	14784104.3	20Aug14	3035793	31Aug20	3035793	23Sep20
WEARABLE DEVICE FOR FISHING	FR	14784104.3	20Aug14	3035793	31Aug20	3035793	23Sep20
WEARABLE DEVICE FOR FISHING	GB	14784104.3	20Aug14	3035793	31Aug20	3035793	23Sep20
WEARABLE DEVICE FOR FISHING	IT	14784104.3	20Aug14	3035793	31Aug20	3035793	23Sep20
WEARABLE DEVICE FOR FISHING	US	0514/032,319	29Sep13	US20150057968A1	26Feb15	US10251382	09Apr19
WIRELESS SONAR DEVICE	US	0514/718,679	21May15	US20160341828A1	24Nov16	US19551498	04Feb20
WIRELESS SONAR DEVICE	US	0516/524,540	29Jul19	US20190346567A1	14Nov19		
WIRELESS SONAR RECEIVER	US	0515/235,873	01Aug16	US20170038465A1	09Feb17	US10578706	03Mar20
Wireless Trolling Motor Assembly	US	0516/460,042	02Jul19	US20190322340A1	24Oct19	US1167826	09Nov21

Exhibit A - Patents (Inactive)

Patent Title	Country	Appl No.	Appl Date	Pub No.	Pub Date	Patent No.	Patent Date
METHOD AND APPARATUS FOR IMPROVING FISHING UNDER A FISHING DOCK	US	US09/709,309	29Feb06			US2488876	13Jan76
VEHICULAR ATTITUDE CONTROL DISPLAY	CA	090,136	06Aug70			914774	18Nov72
VEHICULAR ATTITUDE CONTROL DISPLAY	FR		92Sep70			70,32124	03Sep73
AN IMPROVED DEPTH SOUNDER	US	US754,834	10Sep68			US3548373	13Dec70
APPARATUS FOR DETECTING AND IDENTIFYING MARINE LIFE	IT	397198	67Nov71			972403	20May74
LIGHT SHIELD FOR AN INDICATING INSTRUMENT	US	US00/139608	08Nov71			US3787413	24Jul73
APPARATUS FOR DETECTING AND IDENTIFYING MARINE LIFE	CA	141113	02May72			CA985970	25May76
NOISE REJECTION CIRCUIT	CA	148819	04Aug72			CA950575	02Jul74
A DEPTH METER HAVING IMPROVED TIME VARYING GAIN CONTROL	US	US47728	19Jan70			US3681324	08Aug72
NOISE REJECTION CIRCUIT	IT	52,131A/72	17Apr72			963143	28Dec73
NOISE REJECTION CIRCUIT	FR		18Aug72	2,181,504		72	19Aug73
COMBINATION FLUORESCENT AND INCANDESCENT LANTERN	US	US0286858	02Sep72			US0231251	15Oct74
PORTABLE FLUORESCENT LANTERN	US	US0286858	02Sep72			US0233250	15Oct74
DISPLAY STAND	US	US00/25224	28Sep70			US0224762	12Sep72
APPARATUS FOR PROVIDING AN INDICATION OF THE DEPTH OF OBJECTS IN WATER	US	US00/309,680	27Nov72			US3781777	23Dec73
OXYGEN ANALYZER	FR		12Dec72	2,177,276		72	08Oct73
OXYGEN ANALYZER	IT	54,166A/72	13Dec72			974032	20Jun74
A DEVICE FOR INDICATING THE TEMPERATURE AND DEPTH OF WATER (FISH-N-TEMP)	US	US00/996,285	10Dec70			US3721124	20Jan73
SONAR TRANSDUCER	US	US0/334,122	28Feb73			US0230423	19Feb74
TROLLING MOTOR WITH STEERING MEANS	IT	48,756A/73	13Mar73			979816	30Sep74
LIGHT SHIELD FOR AN INDICATING INSTRUMENT	JP	106,130y/72	03May72	196618		1747413	24Mar73
TROLLING MOTOR WITH STEERING MEANS	US	US00/238327	27Mar72			US3723829	27Mar73
SUBMERGED OBJECT WARNING APPARATUS FOR SHIPS	US	US00/218146	05Apr69			US3740703	19Jan73
NOISE REJECTION CIRCUIT	US	US37247971	02May69			US3787053	17Jul73
APPARATUS FOR MOUNTING A TRANSDUCER TO THE TRANSOM OF A BOAT	US	US17/342571	04Jun73			US02752431	14Aug73
MARKER BOUY	US	US0/466,393	18Oct73			US0231460	16Apr74
INVERTER BALLAST CIRCUIT	US	US00/230624	25Aug72	3778677 A		US3778677	11Dec73
OXYGEN ANALYZER	US	US00/237105	21Mar68			US3782174	01Jan74
IMPROVED TROLLING MOTOR WITH STEERING MEANS	US	US00/342,411	19Apr73	3797445 A		US3797448	13Mar74
A PIPELINE INCLUDING MEANS OF INDICATING THE EXISTENCE OF AND LOCATION OF A LEAK	US	US00/183206	23Sep71			US3806217	06Mar74
TEMPERATURE DIFFERENTIAL SENSOR FOR GLIDERS	US	US00/194295	01Nov71			US3798271	26Mar74
FOUR PHASE STEPPING MOTOR CONTROL	US	US00/284723	30Aug72			US3801921	02Apr74
AUTOMATIC DOWN RIGGER	US	US00/323,450	15Jan73			US3808731	07May74
LIGHT EMITTING DIODE (LED) OF PHOSPHOROUS READOUT	US	US00/342,378	19Apr73	3825447 A		US3835447	10Sep74
SPRING LOADED TRANSDUCER BRACKET	US	US00/283,523	30Jun73			US3845928	05Nov74
SONAR UNIT FOR FISHERMEN (LOW COST GIMBAL)	US	US05/564,775	02Jan75			US0243589	08Mar77
SONAR FLASHER SPEED CONTROL	US	US00/318,281	20Dec74			US3946285	23Mar76
PORTABLE SONAR APPARATUS FOR FISHERMEN	US	US05/585,318	09Jan75			US0244434	24May77
METHOD OF MANUFACTURING TRANSDUCERS	US	US05/749,891	29Jul76	4110727 A		US4110727	29Aug78
BRUSH HOLDER FOR RECTILINEAR RECORDER	US	US05/945,486	26Nov78			US4186372	23Jan80
COMMUTATOR AND FIBER BRUSH ROTATING DISC	US	US05/945,495	26Sep78			US4189702	19Feb80
RANGE EXPANDER FOR SONAR SYSTEM	US	US06/183,047	22Sep80			US4322027	30Mar82
HOUSING FOR SONAR UNIT	US	US04/6,702	09Aug82			US0278690	07May85
SONAR HAVING SIGNAL AMPLITUDE DIFFERENTIATION AND NOISE SUPPRESSION	US	US06/267937	18Nov80			US4369808	18Jan83
SONAR APPARATUS HAVING IMPROVED GAIN CONTROL	US	US07/464,414	07Feb83			US4420824	13Oct83
TRANSDUCER MOUNTING	US	US06/407,455	12Aug82			US4562130	25Jan84
IMPROVED GIMBAL BRACKET MOUNT FOR INSTRUMENT	US	US06/421721	12Sep82	4486869 A		US4486869	05Nov84
SONAR APPARATUS WITH MEANS TO TRANSMIT AND PRINT ON ALTERNATE CYCLES	US	US06/509,934	01Jul83			US4612633	16Sep86
SONAR FISH FINDER APPARATUS PROVIDING SPLIT-SCREEN DISPLAY	US	US07/228089	05Aug88			US4879697	07Nov89
SONAR TRANSDUCER ASSEMBLY FOR FISHING BOAT (3D-XDCR)	US	US07/279944	02Dec88			US4907288	06Mar90
MOUNTING OF TRANSDUCER IN A BOAT HULL	US	US07/207211	10Jan88			US4938165	03Jul90
A liquid crystal display	GB	GB129570,118,752	28Aug90	2,47536 (A)		2,47536	04Mar92
TRANSDUCER FOR HIGH SPEED BOATS (SKIMMER)	US	US07/9514,440	16Nov90			US5109264	28Apr92
TRANSDUCER DEVICE FOR ATTACHMENT TO A BOAT OR OTHER WATERCRAFT	US	US07/614,439	19Nov90			US0329615	22Sep92
TRANSDUCER DEVICE FOR ATTACHMENT TO A BOAT OR OTHER WATERCRAFT	US	US07/615,822	16Nov90			US0329616	22Sep92
SONAR SYSTEM HAVING AN INTERACTIVE SONAR VIEWING APPARATUS AND METHOD OF CONFIGURING SAME	US	US08/503,080	14Jul95	US0537360A		US537386	16Jul96
MOUNTING BRACKET FOR DASH MOUNTABLE MARINE ELECTRONICS	US	US08/523,358	18Sep95	US0565483A		US5805403	02Feb99
TWO-PIECE INTERLOCKING CONNECTOR	US	US29/044,809	28Sep95	0,371368 B		US0373568	18Sep96
RATCHET OPERATED KICK-UP BRACKET	US	US08/573,465	18Dec95	0374700 A		US5574700	12Nov96
BOUYANT SUPPORT	US	US29/053,254	18Apr96			US0386664	08Jul97

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BOUYANT TRANSDUCER ASSEMBLY FOR ASSISTING AN ANGLER	US	0508/634,617	18Apr96	US5771265A		US5771265	23Jun98
BOAT HULL HAVING THE CAPABILITY OF OPTIONALLY INSTALLING A TRANSDUCER	US	0508/562,823	12Jun96	US5697318A		US5697319	16Dec97
BOUYANT SUPPORT CONTINUATION	US	0529/961,757	30Oct96			US6396892	03Feb98
BOUYANT TRANSDUCER ASSEMBLY FOR ASSISTING AN ANGLER	US	0506/781,182	09Jan97	US5887376A		US5887376	30Mar99
INTEGRATED MAPPING AND AUDIO SYSTEM	EP	05794872.J	98Sep05			1787141	20Jan08
RADOME ILLUMINATION SYSTEM	NZ	NZ 537,909	19Apr96	537909		537909	08Feb97
RADOME ILLUMINATION SYSTEM	AU	2066/260,323	28Jan96	2066200,323 A1		2066200323 B2	16Feb97
INVERTER BALLAST CIRCUIT	CA	CA 175831	15Aug73	289932 A1		CA989932	25May76
LIGHT SHIELD FOR AN INDICATING INSTRUMENT	CA	CA 141232	03May72	678506 A1		CA978506	23Nov75
LIGHT SHIELD FOR AN INDICATING INSTRUMENT	SK	3747413 A	08Nov71	2,159,868		72,24497	28May73
LIGHT SHIELD FOR AN INDICATING INSTRUMENT	IT	53,815A/72	03May72			873194	10Jun74