AO 120 (Rev. 08/10)

TO:	REPORT ON THE FILING OR DETERMINATION OF AN ACTION REGARDING A PATENT OR TRADEMARK
Mail Stop 8 Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	

In Compliance with 35 U.S.C. § 290 and/or 15 U.S.C. § 1116 you are hereby advised that a court action has been filed in the U.S. District Court Southern District of Georgia on the following

☐ Trademarks or ☑ Patents. (☐ the patent action involves 35 U.S.C. § 292.):

DOCKET NO.	DATE FILED	U.S. DISTRICT COURT
1:25-cv-00267	11/7/2025	Southern District of Georgia

PLAINTIFF	DEFENDANT
Solbello, Inc.	ShoreShade LLC

	PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1	RE50606 E	9/30/2025	Solbello, Inc.
2			
3			
4			
5			

In the above—entitled case, the following patent(s)/ trademark(s) have been included:

DATE INCLUDED	INCLUDED BY ☐ Amendment ☐ Answer ☐ Cross Bill ☐ Other Pleading	
PATENT OR TRADEMARK NO.	DATE OF PATENT OR TRADEMARK	HOLDER OF PATENT OR TRADEMARK
1		
2		
3		
4		
5		

In the above—entitled case, the following decision has been rendered or judgement issued:

DECISION/JUDGEMENT

CLERK	(BY) DEPUTY CLERK	DATE

Copy 1—Upon initiation of action, mail this copy to Director **Copy 3—Upon termination of action, mail this copy to Director**
Copy 2—Upon filing document adding patent(s), mail this copy to Director **Copy 4—Case file copy**

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

36829 7590 09/30/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

EXAMINER	
TILL, TERRENCE R	

ART UNIT	PAPER NUMBER
3993	

NOTIFICATION DATE	DELIVERY MODE
09/30/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JJS@SCHWARTZ-IPLAW.COM
RYLEE@SCHWARTZ-IPLAW.COM
uspto@dockettrak.com

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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APPLICATION NO.	ISSUE DATE	PATENT NO.
18/367,224	30-Sep-2025	RE050606

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
CHARLOTTE, NC 28210

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at https://patentcenter.uspto.gov

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit https://www.uspto.gov/electronicgrants

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/30/2025	RE50606	1500/2US-RE	9298

36829 7590 09/17/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at https://patentcenter.uspto.gov/. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at https://certifiedcopycenter.uspto.gov/index.html. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Extension or Adjustment under 35 U.S.C. 154 (b)

A reissue patent is for "the unexpired part of the term of the original patent." See 35 U.S.C. 251. Accordingly, the above-identified reissue application is not eligible for Patent Term Extension or Adjustment under 35 U.S.C. 154(b).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional inventors):

Paul T. James, Wrightsville Beach, NC;

APPLICANT(s) (Please see PATENT CENTER site https://patentcenter.uspto.gov for additional applicants):

Solbello, Inc., Wilmington, NC, Assignee (with 37 CFR 1.172 Interest);

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**08/21/2025 11:32:16 AM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	71954965	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Issue_Fee_Transmittal_8.2025.pdf	1	Issue Fee Payment (PTO-85B)	1363 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Issue_Fee_Transmittal_8.2025.pdf	0E84A7A0C2C303996C8B89D4A1398748C290A999CFF2D6B380E50D32DC0928A7A478C53C66C73188C91F32CDBB975235645E90C2E4AE3ABC361DF9428C47B7F2

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**08/21/2025 11:32:16 AM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	71954965	AUTHORIZED BY	-
CUSTOMER #	36829	FILING DATE	09/12/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul T. James

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 6787	**E20258KB33188338**	**Jeffrey Schwartz**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
2511	REISSUE ISSUE FEE	516.00	1	516.00
			TOTAL AMOUNT:	**$516.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

36829 7590 08/21/2025
SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

Rylee Cauthren	(Typed or printed name)
/RyleeCauthren/	(Signature)
August 21, 2025	(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

TITLE OF INVENTION: SELF-ADJUSTING SUN SHADE ASSEMBLY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	$258	$0.00	$0.00	$258	11/21/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
TILL, TERRENCE R	3993	135-098000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list
(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 Schwartz Law Firm, P.C.
2
3

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE: Sobello, Inc.

(B) RESIDENCE: (CITY and STATE OR COUNTRY): Wilmington, NC

Please check the appropriate assignee category or categories (will not be printed on the patent) : ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. **Change in Entity Status** (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☒ Applicant asserting small entity status. See 37 CFR 1.27

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature /JeffreyJSchwartz/ Date August 21, 2025

Typed or printed name Jeffrey J. Schwartz Registration No. 37532

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

36829 7590 08/21/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

EXAMINER	
TILL, TERRENCE R	
ART UNIT	PAPER NUMBER
3993	

DATE MAILED: 08/21/2025

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

TITLE OF INVENTION: SELF-ADJUSTING SUN SHADE ASSEMBLY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	$258	$0.00	$0.00	$258	11/21/2025

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

36829 7590 08/21/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

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Certificate of Mailing or Transmission

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(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

TITLE OF INVENTION: SELF-ADJUSTING SUN SHADE ASSEMBLY

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	MICRO	$258	$0.00	$0.00	$258	11/21/2025

EXAMINER	ART UNIT	CLASS-SUBCLASS
TILL, TERRENCE R	3993	135-098000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

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(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,
(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____
2 _____
3 _____

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(A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent) : ❑ Individual ❑ Corporation or other private group entity ❑ Government

4a. Fees submitted: ❑ Issue Fee ❑ Publication Fee (if required)

4b. Method of Payment: *(Please first reapply any previously paid fee shown above)*

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❑ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

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❑ Applicant asserting small entity status. See 37 CFR 1.27

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❑ Applicant changing to regular undiscounted fee status.

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NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____ Date _____

Typed or printed name _____ Registration No. _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

36829 7590 08/21/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

EXAMINER	
TILL, TERRENCE R	
ART UNIT	**PAPER NUMBER**
3993	

DATE MAILED: 08/21/2025

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OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).
https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
2) a federal, state, local, or international agency, in response to its request;
3) a contractor of the USPTO having need for the information in order to perform a contract;
4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
9) the Office of Personnel Management (OPM) for personnel research purposes; and
10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/367,224	Applicant(s) James, Paul T.	
	Examiner TERRENCE R TILL	Art Unit 3993	AIA (First Inventor to File) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☑ This communication is responsive to the supplemental amendment filed 8/13/2025.
   ☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☑ The allowed claim(s) is/are 21,23-41,43,45-48,50-55 and 57 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see **http://www.uspto.gov/patents/init_events/pph/index.jsp** or send an inquiry to **PPHfeedback@uspto.gov.**

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

   Certified copies:

   a) ☐ All b) ☐ Some* c) ☐ None of the:

   1. ☐ Certified copies of the priority documents have been received.
   2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
   3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
   ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☑ Notice of References Cited (PTO-892)
2. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____.
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.
4. ☑ Interview Summary (PTO-413), Paper No./Mail Date. 08152025.
5. ☐ Examiner's Amendment/Comment
6. ☑ Examiner's Statement of Reasons for Allowance
7. ☐ Other _____.

/TERRENCE R TILL/
Reexamination Specialist, Art Unit 3993

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance:

3. With respect to claim 21, the prior art does not teach nor render obvious the claimed combination, particularly a channel sized and shaped to house each rib such that the ribs extend across the edge; at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

4. With respect to claim 35, the prior art does not teach nor render obvious the claimed combination, particularly a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge; at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

5. With respect to claim 41, the prior art does not teach nor render obvious the claimed combination, particularly a sail having a proximal edge secured to each of said pivoted ribs, and an unrestrained free edge opposite the proximate edge; whereby said sail is unfolded by lifting said pivot ribs outwardly from said mast from the folded condition into the unfolded condition such that the unrestrained free edge of said sail

unfurls in response to blowing of the wind, and wherein said sail and ribs rotate together to a direction of the blowing wind; and a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and ribs in response to blowing of the wind.

6. With respect to claim 47, the prior art does not teach nor render obvious the claimed combination, particularly a sail having a proximal edge secured to said rib and an unrestrained free edge adapted to unfurl in response to blowing of the wind, and wherein an entire surface area of said sail is unrestrained from the proximal edge to the free edge; and when unfurled, said sail and rib are adapted to rotate together to a direction of the blowing wind.

7. With respect to claim 53, the prior art does not teach nor render obvious the claimed combination, particularly a sail having a proximal edge defining a channel sized and shaped to receive each of said pivoted ribs, and an unrestrained free edge adapted to unfurl in response to blowing of the wind; a slider configured to move up and down said mast, and operatively actuating said pivoted ribs such: that raising said slider on said mast causes said pivoted ribs to open outwardly from a folded condition into an unfolded condition thereby unfolding said sail, such that when unfolded said sail unfurls in response to blowing of the wind and rotates together with said pivoted ribs to a direction of the blowing wind.

8. With respect to claim 54, the prior art does not teach nor render obvious the claimed combination, particularly a sail having a proximal edge secured to each of the pivoted ribs and an unrestrained free edge opposite the proximate edge; that in the unfolded condition the unrestrained free edge of the sail unfurls in response to blowing

of the wind; and when the sail is unfurled, enabling the sail and pivoted ribs to rotate together relative to the mast to a direction of the blowing wind.

9. The closest prior art, to Saiz, does not teach nor render obvious, with any other combination of prior art, the above claimed combinations. Saiz does teach rotation, but this rotation is effected by the mast, and not relative to the mast. See para. [0008]. There would be no reason to modify Saiz to have the sail and pivot ribs (from claim 54) of figure 1 of Saiz to rotate *relative to the mast*, especially since there is no teaching in the prior art of such an arrangement while meeting all the other limitations as well.

10. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

11. Applicant is reminded of the continuing obligation under 37 CFR 1.178(b), to timely apprise the Office of any prior or concurrent proceeding in which Patent No. 11,596,211 is or was involved. These proceedings would include interferences, reissues, reexaminations, and litigation.

12. Applicant is further reminded of the continuing obligation under 37 CFR 1.56, to timely appraise the Office of any information which is material to patentability of the claims under consideration in this reissue application.

13. These obligations rest with each individual associated with the filing and prosecution of this application for reissue. See also MPEP §§ 1404, 1442.01 and 1442.04.

14. Applicant is notified that any subsequent amendment to the specification and/or claims must comply with 37 CFR 1.173(b).

15. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

16. The US patent to Rizzoti and PCT Publication to Toth (not prior art) show the current state of the art in pivoting shade assemblies.

Telephone Numbers for reexamination inquiries:

Central Reexam Unit (CRU)	(571) 272-7705
Reexamination Facsimile Transmission No.	(571) 273-9900

Future Correspondence

17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TERRENCE R TILL whose telephone number is (571)272-1280. The examiner can normally be reached on Monday through Thursday and every other Friday 6:45-4:15 EST.

18. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on 571-272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-9900.

19. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov.

20. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer

Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.Any inquiry concerning this communication or earlier communications from the Reexamination Legal Advisor or Examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

All correspondence relating to this reissue proceeding should be directed as follows:

By Patent Center:
https://patentcenter.uspto.gov

By **U.S. Postal Service Mail** to:

Mail Stop Ex Parte Reexam
ATTN: Central Reexamination Unit
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand to: Customer Service Window
Knox Building
501 Dulany St.
Alexandria, VA 22314

/TERRENCE R TILL/
Reexamination Specialist, Art Unit 3993

Conferees:	/WILLIAM E DONDERO/ and William E. Dondero Reexam Specialist AU 3993	/Patricia L Engle/ Patricia Engle Supervisory Reexam Specialist AU 3993

Examiner-Initiated Interview Summary	**Application No.** 18/367,224	**Applicant(s)** James, Paul T.		
	Examiner TERRENCE R TILL	**Art Unit** 3993	**AIA (First Inventor to File) Status** Yes	**Page** 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	**Title**	**Type**
TERRENCE R TILL	Primary Examiner	Telephonic
Jeffrey Schwartz	Attorney of Record	

Date of Interview: 12 August 2025

Issues Discussed:

Objections

The declaration submitted 5/14/2025 appeared to have an electronic signature that was not an "S" signature (no slashes on either side), nor identified as an electronic signature in accordance with Federal Register / Vol. 89, No. 57 / Friday, March 22, 2024.
Patent Owner re-submitted the declaration with a "wet" signature to overcome the issue.
Also, claims 35, 41 and 43 had bracketing and underlining. The bracketed terms needed to be removed.
A corrected set of claims was re-submitted. Also, Claim 35 was also amended to replace "an anchor" (second occurrence) with --the anchor--

Other

No written statement as to the substance of the interview need be made of record in the application file as the summary above addresses all issues and the application is allowable.

/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993	

Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04
Please further see:
MPEP 713.04
Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b)
37 CFR § 1.2 Business to be transacted in writing

Applicant recordation instructions: It is not necessary for applicant to provide a separate record of the substance of interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

Notice of References Cited	Application/Control No. 18/367,224	Applicant(s)/Patent Under Reexamination James, Paul T.	
	Examiner TERRENCE R TILL	Art Unit 3993	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-5555903-A	1996-09-17	Rizzotti; Salvatore A.	A45B11/00	135/20.1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N	WO-2025017335-A1	2025-01-23	WO	Tóth Péter	B63B34/26
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	**Art Unit**
	TERRENCE R TILL	3993

CPC								
Symbol							**Type**	**Version**
A45B	/	23	/	00			F	2013-01-01
A45B	/	25	/	02			I	2013-01-01
A45B	/	25	/	06			I	2013-01-01
A45B	/	25	/	10			I	2013-01-01
A45B	/	25	/	18			I	2013-01-01
A45B	/	2023	/	0093			A	2013-01-01
A45B	/	2025	/	105			A	2013-01-01

CPC Combination Sets								
Symbol					**Type**	**Set**	**Ranking**	**Version**
	/		/					

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	32	
/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993	15 August 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	44	1,10g

U.S. Patent and Trademark Office — Part of Paper No.: 20250815

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	**Art Unit**
	TERRENCE R TILL	3993

INTERNATIONAL CLASSIFICATION				
CLAIMED				
A45B23/00	/	23	/	00
A45B25/02	/	25	/	02
A45B25/06	/	25	/	06
A45B25/10	/	25	/	10
A45B25/18	/	25	/	18

NON-CLAIMED				
	/		/	

US ORIGINAL CLASSIFICATION	
CLASS	**SUBCLASS**

CROSS REFERENCES(S)						
CLASS	**SUBCLASS (ONE SUBCLASS PER BLOCK)**					

NONE (Assistant Examiner) (Date)	**Total Claims Allowed:** 32	
/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993 (Primary Examiner) 15 August 2025 (Date)	O.G. Print Claim(s) 44	O.G. Print Figure 1,10g

Issue Classification	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	**Art Unit**
	TERRENCE R TILL	3993

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIMS

Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
	1		10		19		28		37		46		55		
	2		11		20		29		38		47		56		
	3		12		21		30		39		48		57		
	4		13		22		31		40		49				
	5		14		23		32		41		50				
	6		15		24		33		42		51				
	7		16		25		34		43		52				
	8		17		26		35		44		53				
	9		18		27		36		45		54				

NONE		**Total Claims Allowed:**	
(Assistant Examiner)	(Date)	32	
/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993	15 August 2025	O.G. Print Claim(s)	O.G. Print Figure
(Primary Examiner)	(Date)	44	1,10g

U.S. Patent and Trademark Office Part of Paper No.: 20250815

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	Art Unit
	TERRENCE R TILL	3993

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☑ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/08/2025	08/19/2025							
	1	-	-							
	2	-	-							
	3	-	-							
	4	-	-							
	5	-	-							
	6	-	-							
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	20	-	-							
	21	✓	=							
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	31	✓	=							
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	35	✓	=							
	36	✓	=							
	37	✓	=							
	38	✓	=							
	39	✓	=							
	40	✓	=							
	41	✓	=							
	42	✓	-							

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	**Art Unit**
	TERRENCE R TILL	3993

CLAIM		DATE								
Final	Original	04/08/2025	08/19/2025							
	43	✓	=							
	44	✓	-							
	45	✓	=							
	46	✓	=							
	47	✓	=							
	48	✓	=							
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	53	✓	=							
	54	✓	=							
	55	✓	=							
	56	✓	-							
	57	✓	=							

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	Art Unit
	TERRENCE R TILL	3993

CPC - Searched*		
Symbol	Date	Examiner
A45B2023/0012, A45B23/00, A45B25/02, A45B25/06, A45B25/10, A45B25/18, A45B2023/0093, A45B2025/105, E04H15/28, E04H15/58, E04H15/44, E04H15/46, E04H15/48	04/08/2025	TILL

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Reviewed prosecution history	04/08/2025	TILL
Did P-TACTS search- None found.	04/08/2025	TILL
Did AI similarities search. Did Litigation search	08/15/2025	TILL

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	A45B2023/0012, A45B23/00, A45B25/02, A45B25/06, A45B25/10, A45B25/18, A45B2023/0093, A45B2025/105, E04H15/28, E04H15/58, E04H15/44, E04H15/46, E04H15/48	08/15/2025	TILL

/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993	

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	**Art Unit**
	TERRENCE R TILL	3993

/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993	

United States Patent And Trademark Office	**Application No.**	**Art Unit**
Reissue Terminal Disclaimer Review Form	18/367,224	3993
	Examiner	**AIA Status**
	TERRENCE R TILL	Yes

Original Patent Number of Patent to be Reissued is: 11,596,211

The Maintenance fee status is:
- ◉ up to date
- ○ not up to date

(Consult with SPRS)

Is there a terminal disclaimer filed and accepted during the prosecution of (i) the current reissue application, (ii) the underlying patent, and/or (iii) reexamination proceeding(s) of the underlying patent?

- ◉ NO
- ○ YES (Complete the rest of the form)

The reissue patent is subject to Terminal Disclaimer(s) that was/were:

☐ filed and accepted (DISQ or DISQ.E.FILE) during the prosecution of the current reissue application. (Enter terminal disclaimer(s) filing date(s) below).

1. _____ 2. _____ 3. _____

The underlying patent of the current reissue application is subject to Terminal DIsclaimer(s) that was/were:

☐ accepted (DISQ or DISQ.E.FILE) and of record in the prosecution of the underlying patent and/or reexamination procceeding(s) of the underlying patent. (Enter application/control no(s) and terminal disclaimer(s) filing date(s) below).

1. _____ _____ 2. _____ _____ 3. _____ _____

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

BIB DATA SHEET

CONFIRMATION NO. 9298

SERIAL NUMBER	FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
18/367,224	09/12/2023 RULE	135	3993	1500/2US-RE

APPLICANTS
Solbello, Inc., Wilmington, NC;

INVENTORS
Paul T. James, Wrightsville Beach, NC;

**** CONTINUING DATA ***************************
This application is a REI of 17/417,739 06/23/2021 PAT 11596211
which is a 371 of PCT/US20/38920 06/22/2020
which claims benefit of 62/892,700 08/28/2019

**** FOREIGN APPLICATIONS ***************************

**** IF REQUIRED, FOREIGN FILING LICENSE GRANTED **** ** MICRO ENTITY **
10/18/2023

Foreign Priority claimed	35 USC 119(a-d) conditions met	Verified and Acknowledged	Met after Allowance	STATE OR COUNTRY	SHEETS DRAWINGS	TOTAL CLAIMS	INDEPENDENT CLAIMS
❑ Yes ☑ No	❑ Yes ☑ No	/TERRENCE R TILL/ Examiner's Signature	❑	NC	17	20	2
			TT Initials				

ADDRESS

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210
UNITED STATES

TITLE
SELF-ADJUSTING SUN SHADE ASSEMBLY

FILING FEE RECEIVED	FEES: Authority has been given in Paper	
0.00	No._____ to charge/credit DEPOSIT ACCOUNT No._____ for following:	❑ All Fees ❑ 1.16 Fees (Filing) ❑ 1.17 Fees (Processing Ext. of time) ❑ 1.18 Fees (Issue) ❑ Other _____ ❑ Credit

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	1	("11596211").pn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/03/28 01:51 PM
L2	12	("3070107" | "3075536" | "4433699" | "6422252" | "7406977" | "9051756" | "11219286" | "20060278261" | "20120291830" | "20140041703").pn. AND (PGPB | USPT | USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/03/31 12:58 PM
L3	9	L2 AND (mov$ OR rotat$ OR twist$ OR pivot$ OR turn$)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/03/31 01:31 PM
L4	7318	(A45B2023/0012 OR A45B23/00 OR A45B25/02 OR A45B25/06 OR A45B25/10 OR A45B25/18 OR A45B2023/0093 OR A45B2025/105 OR E04H15/28 OR E04H15/58 OR E04H15/44 OR E04H15/46 OR E04H15/48).cpc.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/03/31 01:54 PM
L5	6864	L4 AND (@pd<="20230307" OR @ad<="20190828")	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/03/31 01:56 PM
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L7	31668	(A45B2023/0012 OR A45B23/00 OR A45B25/02 OR A45B25/06 OR A45B25/10 OR A45B25/18 OR A45B2023/0093 OR A45B2025/105 OR E04H15/28 OR E04H15/58 OR E04H15/44 OR E04H15/46 OR E04H15/48).cpc.	(FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/04/01 03:56 PM
L8	24645	L7 AND (@pd<="20190828")	(FIT (AU, AP, AT, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO);	OR	ON	ON	2025/04/01 03:57 PM

			FPRS; EPO; JPO; DERWENT; IBM_TDB)				
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L11	1774	L9 AND shade	(FIT (AP, AT, AU, CA, CH, CN, DD, DE, EA, EP, ES, FR, GB, JP, KR, OA, RU, SU, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2025/04/01 04:01 PM
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(54) **Title:** A SHADE STRUCTURE FOR A SUP BOARD HAVING A MAST ATTACHMENT POINT

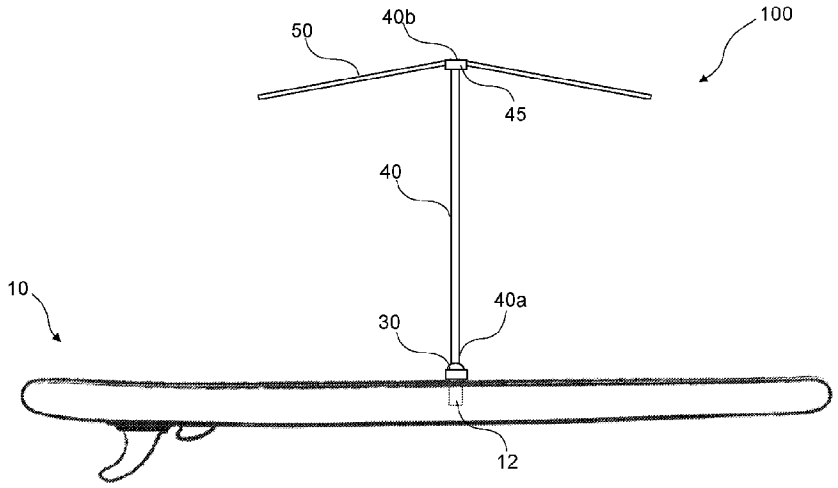


Fig. 3a

(57) **Abstract:** The invention relates to a shade structure (100) for a SUP board (10) having a mast attachment point (12), the shade structure (100) comprises a mast base (30) releasably attachable to the mast attachment point (12) of the SUP board (10), a pole (40) having a first and second ends (40a, 40b) the first end (40a) of which is attached to the mast base (30), and a sunshade (50) attached to the pole (40), which pole (40) can be secured in a fixed position relative to the SUP board (10) by means of the mast base (30).

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[Continued on next page]

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A shade structure for a SUP board having a mast attachment point

The present invention relates to shade structure for SUP boards with mast attachment points.

A "SUP" (Stand-Up Paddleboarding) board, or SUP for short, is a water sports device similar to a kayak, used on the water by paddling with a paddle, standing or kneeling. SUP boards are widely used and have become popular in many parts of the world as they are suitable for a wide range of activities. SUPs are a great way to relax and spend active leisure time, as they can be used in almost any aquatic environment, be it a beach, lake or river. You can get in touch with nature, enjoy the fresh air and the beauty of the aquatic landscape, and Standup paddle boarding can not only be an enjoyable and pleasant way to spend time in nature, but also reduce stress. SUP boards are generally used for recreational purposes such as beaching or family recreation, but they can also be used for fitness training or yoga, as they provide an unstable surface for exercises. Standup paddle boarding exercises the whole body, as you have to balance on the board while moving forward with a paddle. This not only strengthens the body, but also develops the central nervous system and improves endurance.

SUP boards are manufactured in different sizes and shapes to suit different water conditions and user needs. SUP boards can be rigid or inflatable. Inflatable Stand-Up Paddleboards offer an innovative and practical solution for those who want to easily transport and store their board. These boards are usually made of durable PVC material, which allows for easy inflation and deflation. Despite being inflatable, these boards are quite durable and resistant. Their material resists scratches, abrasion and impact, ensuring long life and reliability. It usually only takes a few minutes to inflate the boards and they are

ready to use. These boards essentially provide a platform as solid and stable as rigid SUP boards.

A special and popular type of SUP board is the so-called windsup, also known as windsurf-SUP, which allows a combination of windsurfing and Standup paddle boarding. This type of board has a special feature of having a mast attachment point to which a mast pole and sail can be attached in a detachable way. The mast attachment point is usually designed as an internally threaded socket in the centre or front of the SUP board and is integral with the board body. Note that there are aftermarket adapters (e.g. EXOCET's Mast Base Adaptor) that can be purchased as a mast attachment point on a traditional SUP board, allowing any traditional SUP board to be converted into a Windsurf-SUP board. The advantage of the retrofit is that the position of the mast attachment point can be chosen virtually at will, according to the user's needs, whereas with the factory Windsurf-SUP boards it is predetermined and cannot be changed.

Windsup boards have the stability and comfort of traditional SUP boards, making them easy to handle on the water. Their larger size and volume make them more stable in the wind, making them easier to sail and manoeuvre. A sail mounted on the board allows users to harness the power of the wind and move through the water without paddling. Windsup boards offer versatility to users as the sail can be easily mounted or dismounted, allowing the board to be used as a SUP board when the wind is not suitable for windsurfing. This combined feature allows users to perform a variety of activities on the water, depending on wind conditions and user needs.

Connecting the sail to the windsup is usually a simple and easy process. The mast pole and the sail are connected to the mast attachment point by means of so-called mast pins, also known as mast base. Mast base is usually threaded and is simply screwed into the mast attachment point, which is also threaded. The mast pole is attached to the mast base in a detachable manner, e.g. by a threaded connection with a bayonet lock, etc. Mast base can be of different designs and materials to suit different windsup boards and sails. A common feature of mast bases for SUP boards with a mast attachment point is that they are hinged, i.e. the mast pole attached to the mast base can be freely rotated

around the mast base as a point, but the mast pole cannot be locked in a specific position. The hinged design is necessary to allow the sail attached to the mast to be set in the correct wind direction.

Since Standup paddle boarding is an outdoor activity, protection from the sun while SUPing is extremely important. The harmful effects of sunlight can damage your skin in both the short and long term. During a session, our skin is exposed to the sun's rays for longer periods of time, which can pose an increased risk. Strong sunlight and prolonged exposure can cause sunburn. Sunburn can be painful and can cause redness, blisters, peeling and other unpleasant symptoms. Long-term sun exposure and excessive UV radiation can increase the risk of developing skin cancer. UV radiation can contribute to damage to the DNA of skin cells, which can lead to the development of cancer cells. UV radiation can also damage the collagen fibres responsible for skin elasticity and youthfulness, which can contribute to the early development of wrinkles, blemishes and other skin changes.

Proper protection during sun exposure can reduce the risks mentioned above. However, we recognised that current solutions used during Standup paddle boarding generally only cover:

- use of sunscreen cream or spray
- wearing head protection (e.g. hat, cap)
- use of sunglasses
- wearing protective clothing
- stay in a shaded area (not feasible in open water)
- appropriate timing, e.g. avoiding midday.

While the precautions mentioned above can help minimise the risk of sunburn and sun damage, none of them are a compromise-free solution. The disadvantage of sunscreens, for example, is that they need to be applied regularly to the skin if the user is in the sun for long periods of time. Wearing headgear or protective clothing may be uncomfortable, which can reduce the user's sense of comfort. Avoidance of strong sunlight limits the use of SUP and is a constraint that most users are reluctant to accept.

The task set for the invention is to provide a structure free from the

drawbacks of state-of-the-art solutions. In particular, the aim is to provide a shade structure that can be attached to a SUP board having a mast attachment point and that can provide adequate sun protection for the user on the SUP.

We recognised that the SUP board's mast attachment point, by its design and purpose, can be used to attach not only the mast pole holding the sail, but also other poles in a stable, releasable manner.

We also recognised that a sunshade can be attached to the pole attached to the mast anchorage point, i.e. the mast attachment point of a SUP board with a mast attachment point can be used to attach a stable shade structure to the SUP board that can provide adequate shade for the user on the SUP.

We also recognised that the position of the mast attachment point on the SUP board is chosen so that the sail attached to it (usually several metres high) has the least possible impact on the stability of the SUP. For this reason, the mast attachment point can be fitted with a shade structure of a height under which the user can comfortably fit while standing upright, i.e. while paddling, while maintaining the stability of the SUP.

We also recognised that the releasable attachment means that the shade structure can be easily attached to or removed from the mast attachment point as required, so that if no shade is required, for example, a standard sail can be attached to the SUP.

We also recognised that the mast of the sail that can be attached to the windsup can be used as the pole of the shade structure according tot he invention, making the shade structure even easier to assemble and disassemble and reducing the manufacturing costs of the shade structure.

Based on the above recognition, the task was solved by a shade structure comprising a mast base releasably attachable to the mast attachment point of the SUP board, a pole having a first and second ends the first end of which is attached to the mast base, and a sunshade attached to the pole, which pole can be secured in a fixed position relative to the SUP board (at a given angle to the plane of the SUP board) by means of the mast base.

The gist of the invention is that the a sunshade structure comprising a pole and a sunshade attached to the pole, the pole being attached to the mast

attachment point of the SUP board by means of a mast base which holds the pole in a pre-set fixed position relative to the SUP board (e.g. perpendicular to the plane of the board or at a given angle to it).

Some preferred embodiments of the invention are defined in the dependent claims.

Further details of the invention are explained by means of examples and drawings. In the drawing

Figure 1a is a schematic top view of an exemplary SUP board with a factory-fitted mast attachment point;

Figure 1b is a schematic side view of the SUP board shown in Figure 1a;

Figure 2a is a schematic top view of an exemplary SUP board with retrofitted mast attachment point;

Figure 2b is a schematic side view of the SUP board shown in Figure 2a;

Figure 3a is a schematic side view of an embodiment of a shade structure according to the invention with a folding sunshade, shown in its open position mounted on the SUP board;

Figure 3b is a schematic side view of the shade structure shown in Figure 3a, in its folded condition mounted on the SUP board;

Figure 4 is a schematic top view of the SUP board-mounted shade structure shown in Figure 3a;

Figure 5 is a schematic side view of an embodiment of a shade structure according to the invention with an adjustable pitch sunshade, shown as mounted on a SUP board;

Figure 6 is a schematic side view of an embodiment of a shade structure with a mast base with a hinged connection, shown as mounted on a SUP board;

Figure 7 is a schematic side view of another exemplary embodiment of a shade structure according to the invention, shown as mounted on a SUP board;

Figure 8 is a schematic top view of an exemplary embodiment of a shade structure according to the invention with circular sunshade as mounted on a SUP board.

Figures 1a and 1b show a schematic top view and side view respectively of an exemplary SUP board 10, which is factory fitted with a mast attachment

point 12. That is, in this embodiment, the mast attachment point 12 is incorporated into the SUP board 10 as illustrated by the dotted lines in Figure 1b. It is noted that the mast attachment point 12 can be retrofitted to the SUP board 10, for example, using a known commercially available adapter 20, as shown in Figures 2a and 2b. The adapter 20 may be fixed to the SUP board 10 with suitable adhesive, as is known to a person skilled in the art. Thus, in the context of the present description, a SUP board 10 is defined as a SUP that is fitted with a mast attachment point 12 at the factory, or a SUP that is retrofitted with mast attachment point 12. The original function of the mast attachment point 12 is to anchor the mast of a sail, and they are typically fitted with an internal thread to allow for releasable attachment. Other known locking mechanisms that allow for releasable attachment are also possible, such as snap locks, bayonet locks, etc., as is obvious to a person skilled in the art.

In the embodiments shown in Figures 1a, 1b, 2a, 2b, the SUP board 10 is an inflatable SUP and is preferably equipped with the usual elements such as inflation valve 14 and skeg 16 at the bottom of the SUP board 10. Note that the embodiments shown in the figures are inflatable SUP boards 10, however the SUP board 10 can also be a rigid SUP board 10.

A possible embodiment of a shade structure 100 according to the invention is shown in Figures 3a-3b. The shade structure 100 is for a SUP board 10 with mast attachment point 12. The shade structure 100 comprises a mast base 30 releasably connectable to the mast attachment point 12 of the SUP board 10, a pole 40 having a first end 40a and a second end 40b, the first end 40a of which is attached to the mast base 30, and a sunshade 50 attached to the pole 40, the pole 40 being attachable to the SUP board 10 in a fixed position relative to the SUP board 10 by the mast base 30. In a possible embodiment, the mast base 30 is provided with an external thread which can be screwed into the mast attachment point 12 provided with an internal thread. In addition, embodiments are also conceivable where the mast base 30 is releasably attached to the mast attachment point 12 by other means (e.g. snap-lock, bayonet lock, etc.) as is known to a person skilled in the art. The first end 40a of the pole 40 is attached to the mast base 30, which attachment may preferably be releasable (e.g.

screwed), thereby allowing the pole 40 to be removed from the mast base 30. It is noted, however, that embodiments may be envisaged in which the pole 40 and the mast base 30 are integrally formed. By default, the mast base 30 holds the pole 40 in a fixed position relative to the SUP board 10 (e.g. perpendicular to the SUP board 10). In this embodiment, the angle of the pole 40 with the surface of the SUP board 10 cannot be changed. However, in a preferred embodiment, the mast base 30 is configured as a hinged connection that can be fixed at different angular positions. In the context of the present description, a hinged connection of the mast base 30 is understood to be an attachment whereby the angle of the pole 40 connected to the mast base 30 can be adjusted and locked in a given position relative to the SUP board 10 (see, e.g., Figures 5 and 6). Such a connection can be achieved by means of a known hinged connection, such as a threaded or friction-locked connection (e.g., a ball joint), as is known to one skilled in the art.

The pole 40 is preferably hollow and made of lightweight materials such as plastic, composite materials such as fibreglass, carbon fibre, etc. In a particularly preferred embodiment, the pole 40 is configured as a dismountable pole 40 comprising a plurality of pieces (not shown), thereby making the pole 40 easier to transport. The individual pieces of the pole 40 are secured by sliding into each other, as is known for example in the case of mast poles used for SUP boards 10. In another possible embodiment, the pole 40 is a telescopic pole 40 of adjustable length (not shown), the function of which is explained in more detail below. In a particularly preferred embodiment, the pole 40 of the shade structure 100 is configured as a mast pole of a sail that can be attached to the windsup.

Sunshade 50 is attached to the pole 40 of the shade structure 100 according to the invention. In embodiments shown in Figures 3a, 3b, and Figures 5 and 6, the sunshade 50 is attached to the second end 40b of the pole 40, but embodiments can also be envisaged where the sunshade 50 is attached to the pole 40 between ends 40a and 40b (see Figure 7). Note that the sunshade 50 may be fixed or, where appropriate, releasably attached to the pole 40. In the latter case, a releasable attachment between pole 40 and sunshade 50 can be achieved, for example, by means of an adapter 45. Preferably, the adapter 45

may be, for example, an O-ring slidably mounted on the pole 40 and threadably attachable thereto, whereby the sunshade 50 may be secured in the desired position along the length of the pole 40 (see, for example, Figure 7). In a particularly preferred embodiment, the sunshade 50 is attached to the second end 40b of the pole 40 by a hinged connection that can be fixed at different angular positions, i.e., the adapter 45 is provided as a hinged connection. In the context of the present description, the hinged connection of the adapter 45 is understood to be an attachment by means of which the angle of the sunshade 50 connected to the pole 40, closed by the SUP board 10, can be adjusted and locked in a given position (see e.g. Figure 5). Such an attachment can be achieved by means of a hinged connection known per se, for example by means of a thread or friction lock, as is known to a person skilled in the art. The sunshade 50 may, for example, be rectangular (see Figure 4), circular (see Figure 8), or any other shape. In embodiments where the shape of the sunshade 50 is not axisymmetric, the sunshade 50 is preferably pivotally mounted to the pole 40 as an axis, so that the sunshade 50 can be turned towards the sun. The sunshade 50 should preferably be sized to provide adequate shade for the user standing underneath it. Note that in embodiments with adjustable length telescopic poles 40, the height of the sunshade 50 can be adjusted according to the height of the user, so that a larger shade area can be created by bringing the sunshade 50 closer to the user, or an adequate shade area can be provided even if the user is seated on the SUP board 10. Similarly, in embodiments where the sunshade 50 can be fixed in the desired position along the length of the pole 40 by means of the O-ring adapter 45, an optimally sized shade can be created according to the height or posture of the user. In embodiments where the pole 40 is attached to the mast attachment point 12 by means of a hinged connection, and in embodiments where the sunshade 50 is attached to the pole 40 by means of a hinged connection, the shade structure 100, and thus the shade created by the sunshade 50, can be adjusted according to the direction of the sun.

In a preferred embodiment, the sunshade 50 is configured as foldable sunshade 50 as shown in Figure 3a. The advantage of the foldable design is that in higher winds, folding the sunshade 50 improves the stability of the SUP board

10 and makes the sunshade 50 easier to transport. The sunshade 50 is preferably made of water and UV resistant material such as polymer, impregnated polyester, etc., as is known to a person skilled in the art. The material of the sunshade 50 may also be a mesh, openwork material, which provides a more natural semi-shade. In an exemplary embodiment, the sunshade 50 comprises radial stiffeners, between which stiffeners a net is stretched and to which net textile pieces are attached.

Various modifications to the above disclosed embodiments will be apparent to a person skilled in the art without departing from the scope of protection determined by the attached claims.

CLAIMS

1. A shade structure (100) for a SUP board (10) having a mast attachment point (12), **characterized** by comprising a mast base (30) releasably attachable to the mast attachment point (12) of the SUP board (10), a pole (40) having a first and second ends (40a, 40b) the first end (40a) of which is attached to the mast base (30), and a sunshade (50) attached to the pole (40), which pole (40) can be secured in a fixed position relative to the SUP board (10) by means of the mast base (30).

2. The shade structure (100) according to claim 1, **characterized in that** the sunshade (50) is attached to the second end (40b) of the pole (40).

3. The shade structure (100) according to claim 1 or 2, **characterized in that** the attachment between the sunshade (50) and the pole (40) is a releasable attachment.

4. The shade structure (100) according to any one of claims 1 to 3, **characterized in that** the attachment between the mast base (30) and the first end (40a) of the pole (40) is a releasable attachment.

5. The shade structure (100) according to any one of claims 1 to 4, **characterized in that** the mast base (30) is configured as a hinged connection that can be fixed in different angular positions.

6. The shade structure (100) according to any one of claims 1 to 5, **characterized in that** the pole (40) is a mast pole of a sail attachable to a windsup.

7. The shade structure (100) according to any one of claims 1 to 6,

characterized in that the sunshade (50) is attached to the second end (40b) of the pole (40) by a hinged connection that can be fixed in different angular positions.

8. The shade structure (100) according to any one of claims 1 to 7, **characterized in that** the sunshade (50) is made of water and UV resistant material.

9. The shade structure (100) according to any one of claims 1 to 8, **characterized in that** the sunshade (50) is configured as a foldable sunshade (50).

10. The shade structure (100) according to any one of claims 1 to 4, **characterized in that** the pole (40) is configured as a dismountable pole (40) comprising a plurality of pieces.

11. The shade structure (100) according to any one of claims 1 to 10, **characterized in that** the pole (40) is a telescopic pole (40) of adjustable length.

12. The shade structure (100) according to any one of claims 1 to 11, **characterized in that** the sunshade (50) is pivotally mounted to the pole (40) about an axis of the pole (40).

13. The shade structure (100) according to any one of claims 1 to 12, **characterized in that** the sunshade (50) comprises radial stiffeners, between which stiffeners a net is stretched and to which net textile pieces are attached.

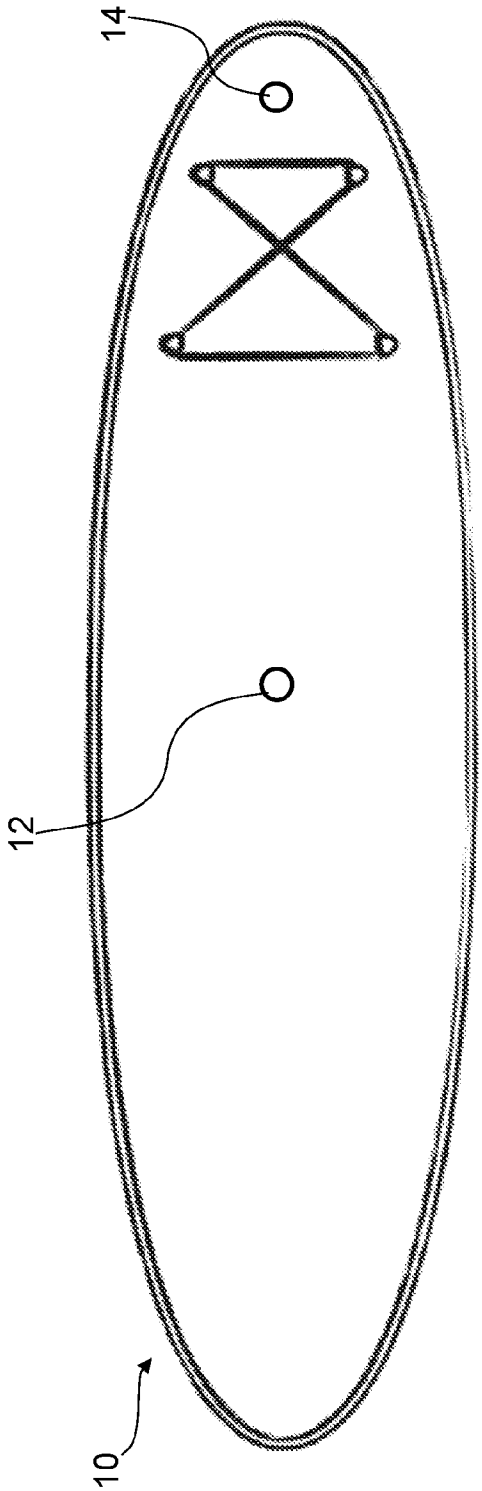


Fig. 1a

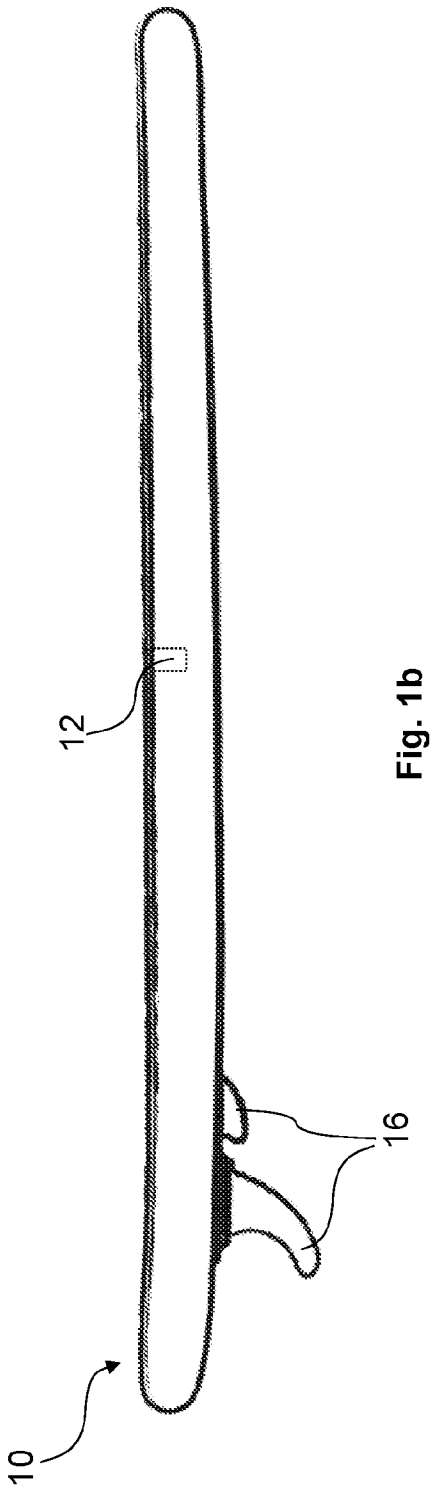


Fig. 1b

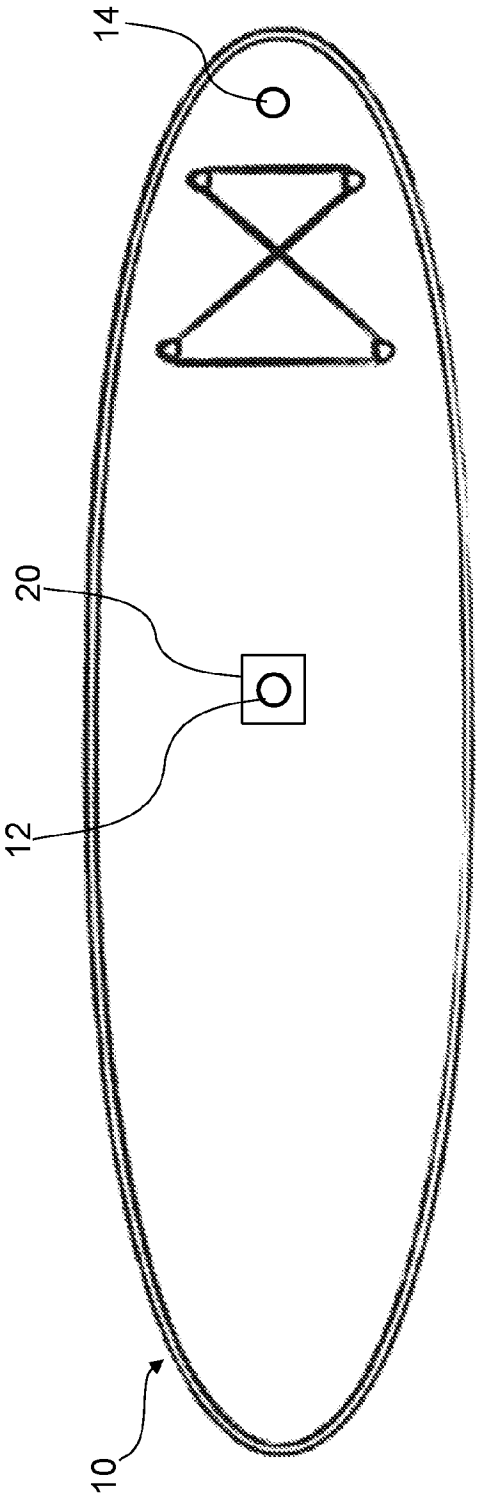


Fig. 2a

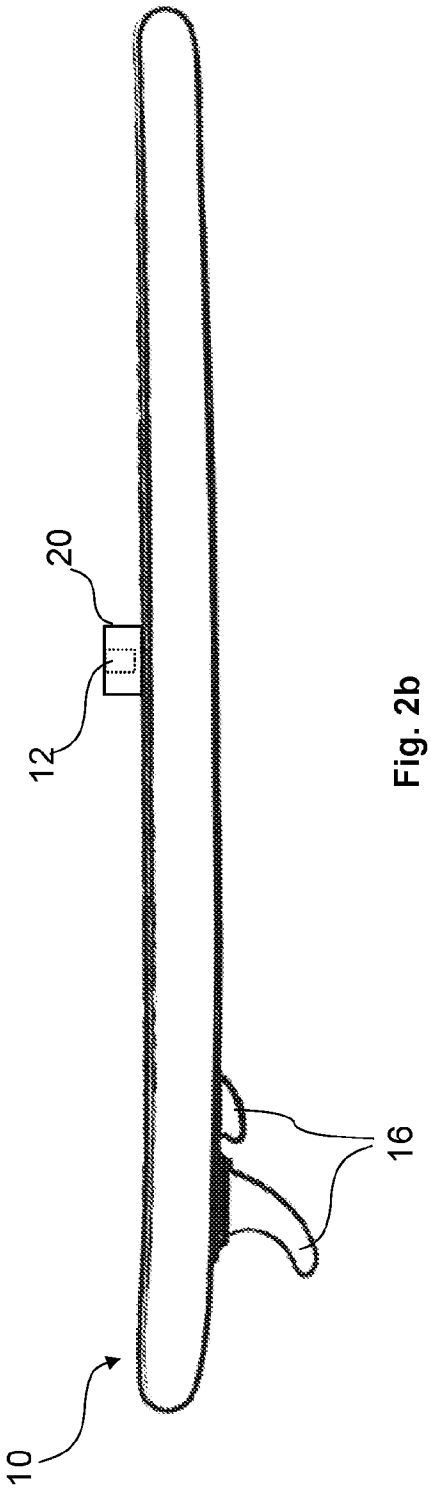


Fig. 2b

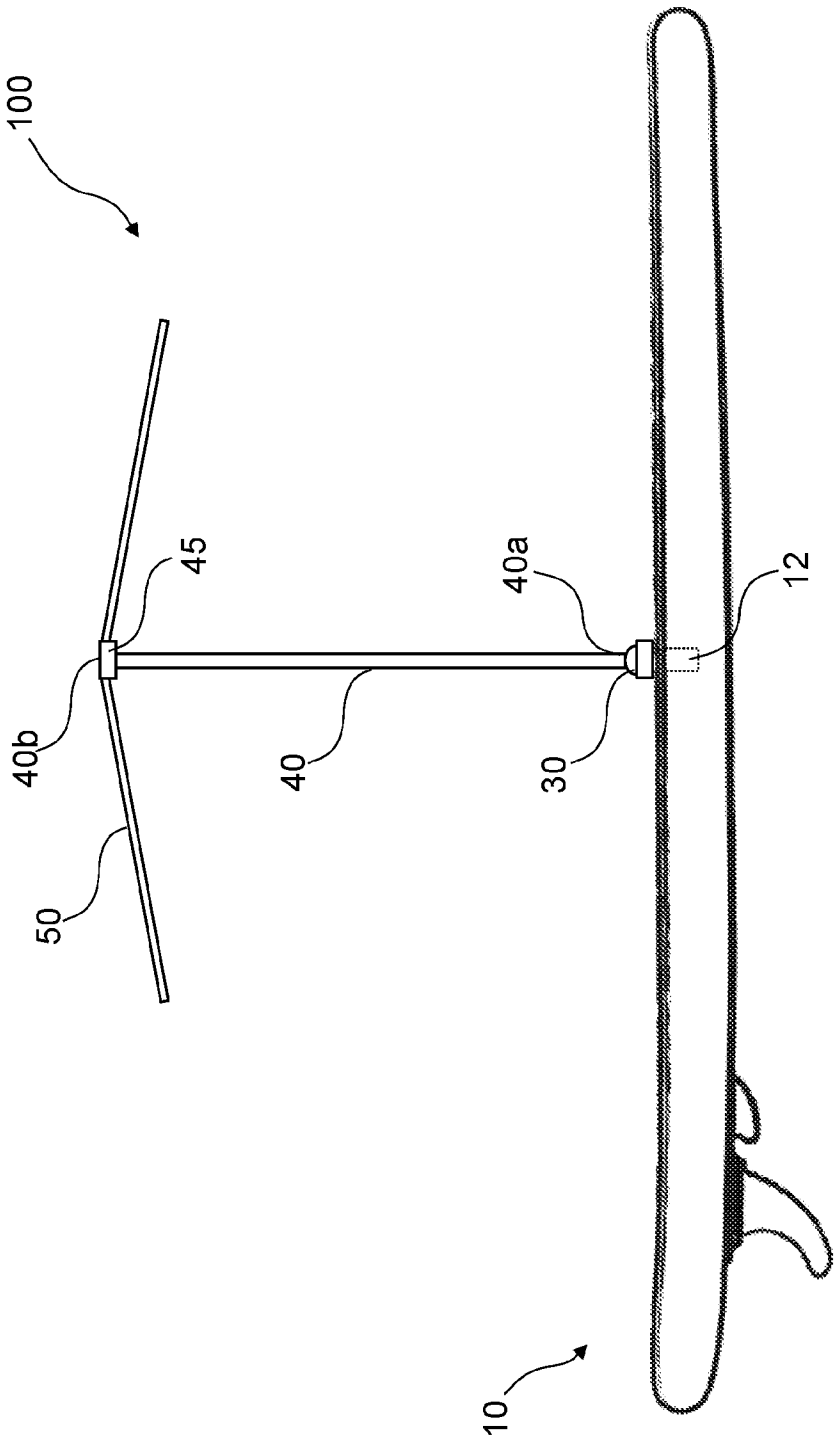


Fig. 3a

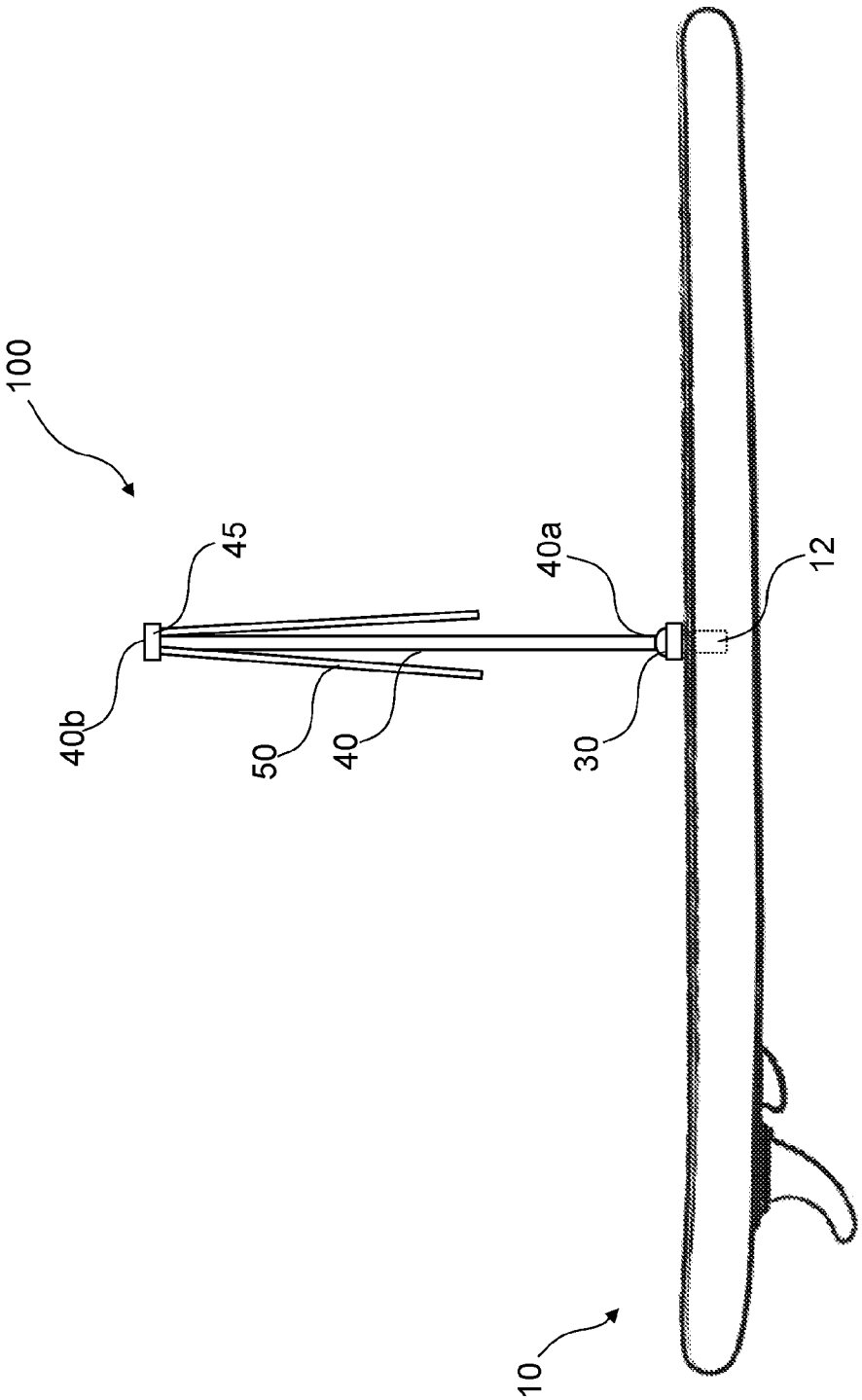


Fig. 3b

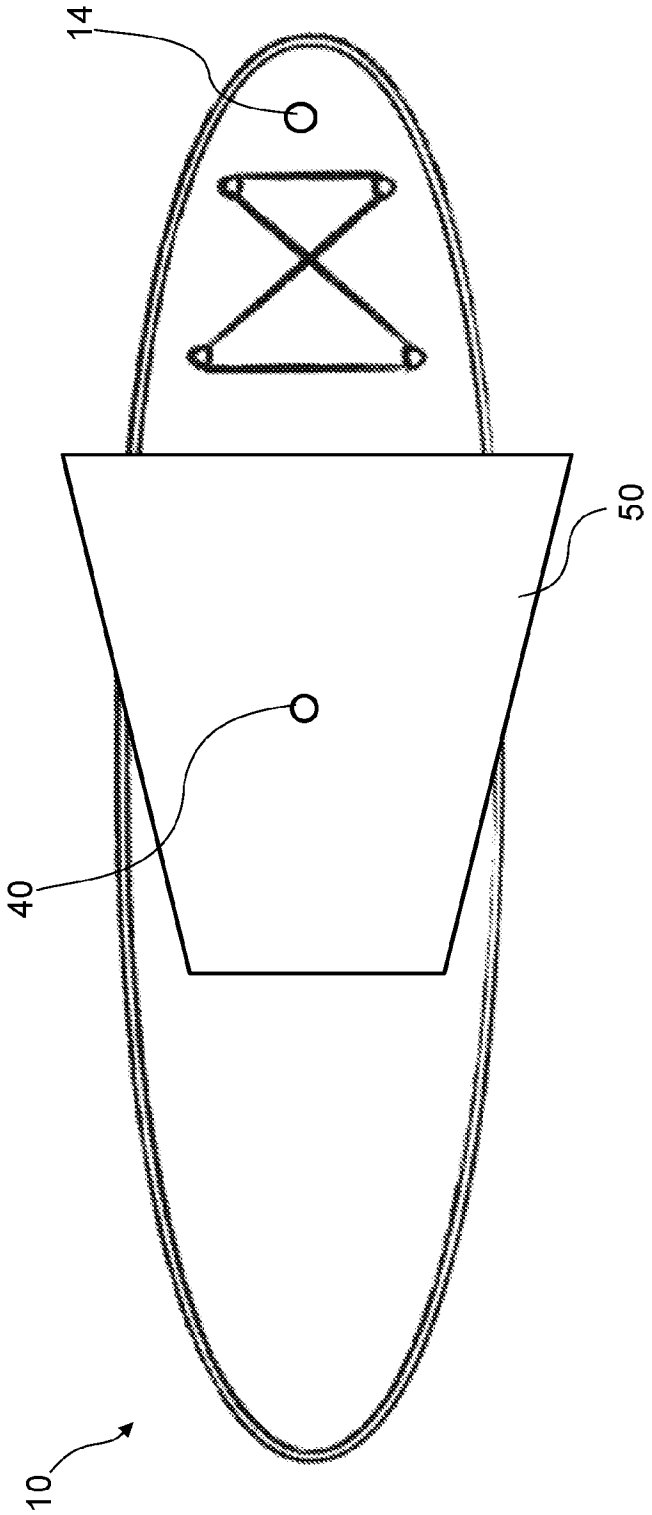


Fig. 4

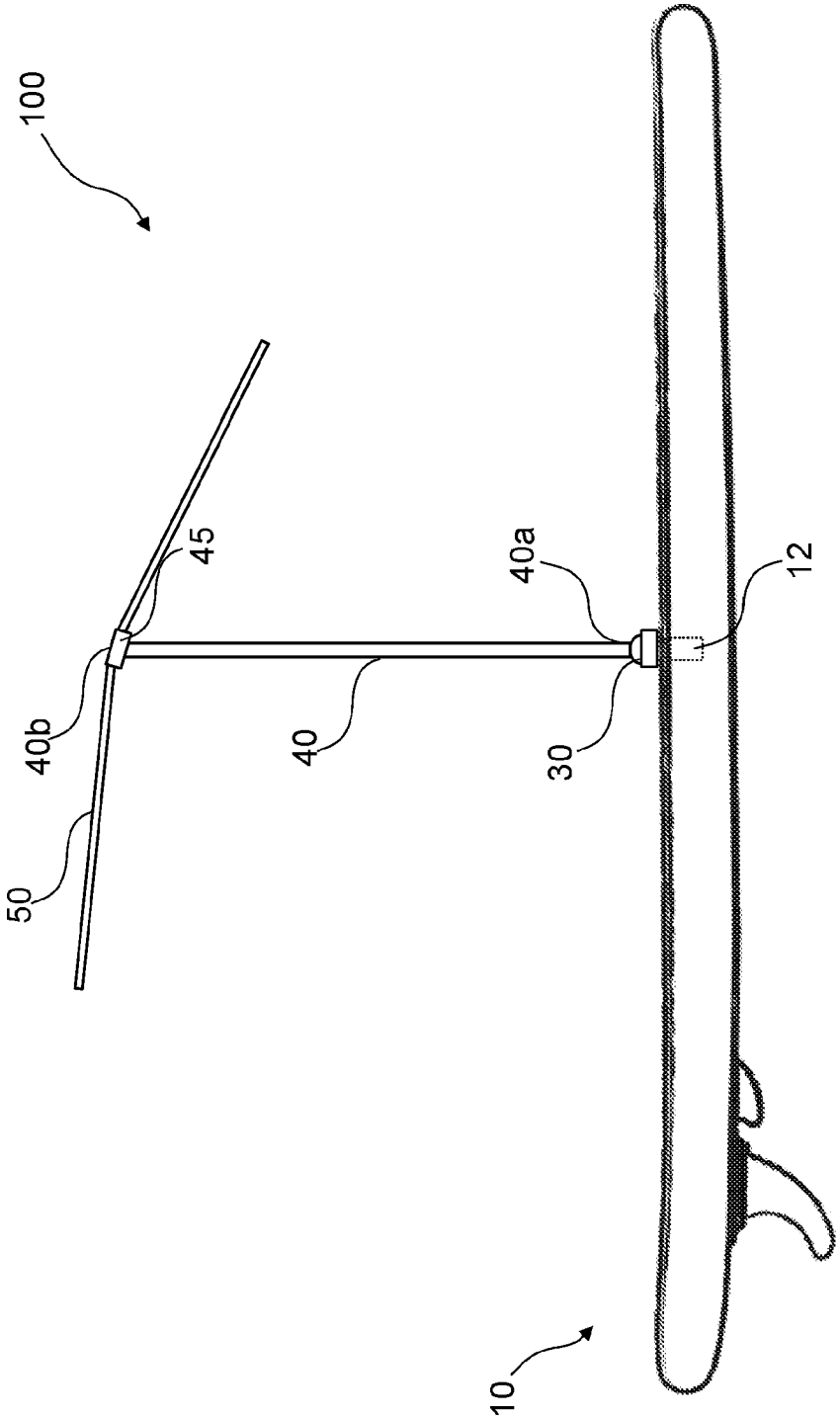


Fig. 5

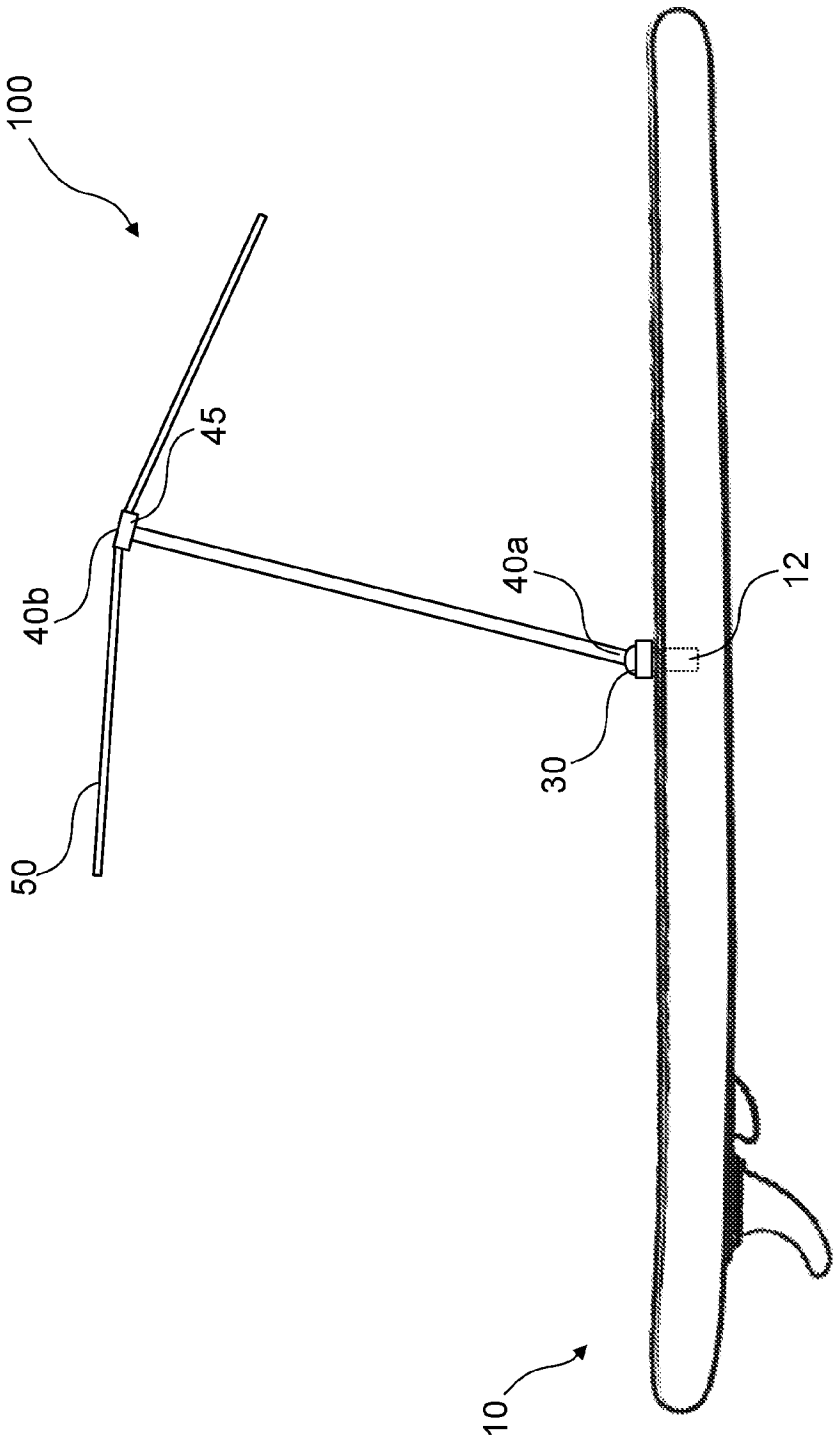


Fig. 6

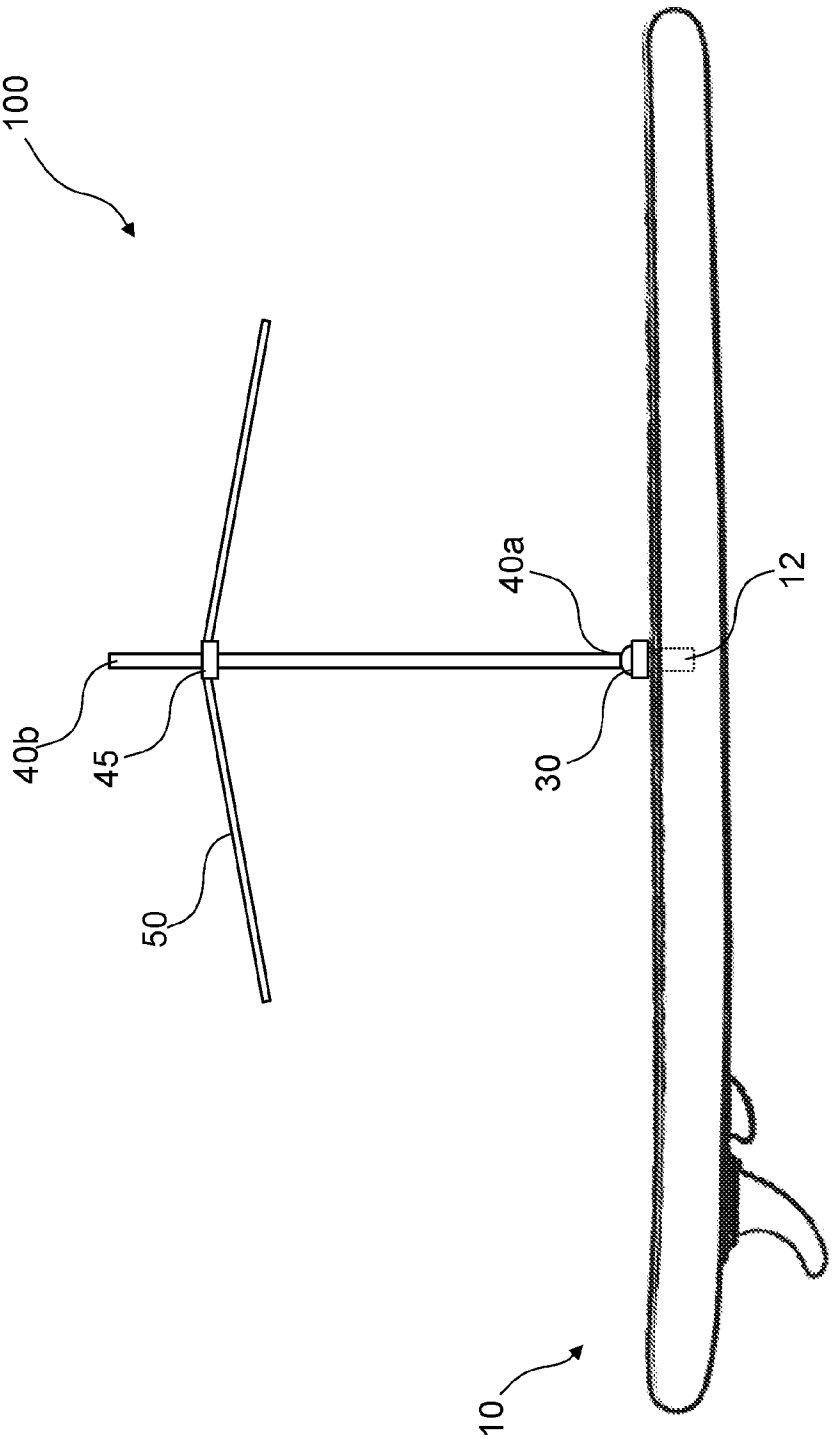


Fig. 7

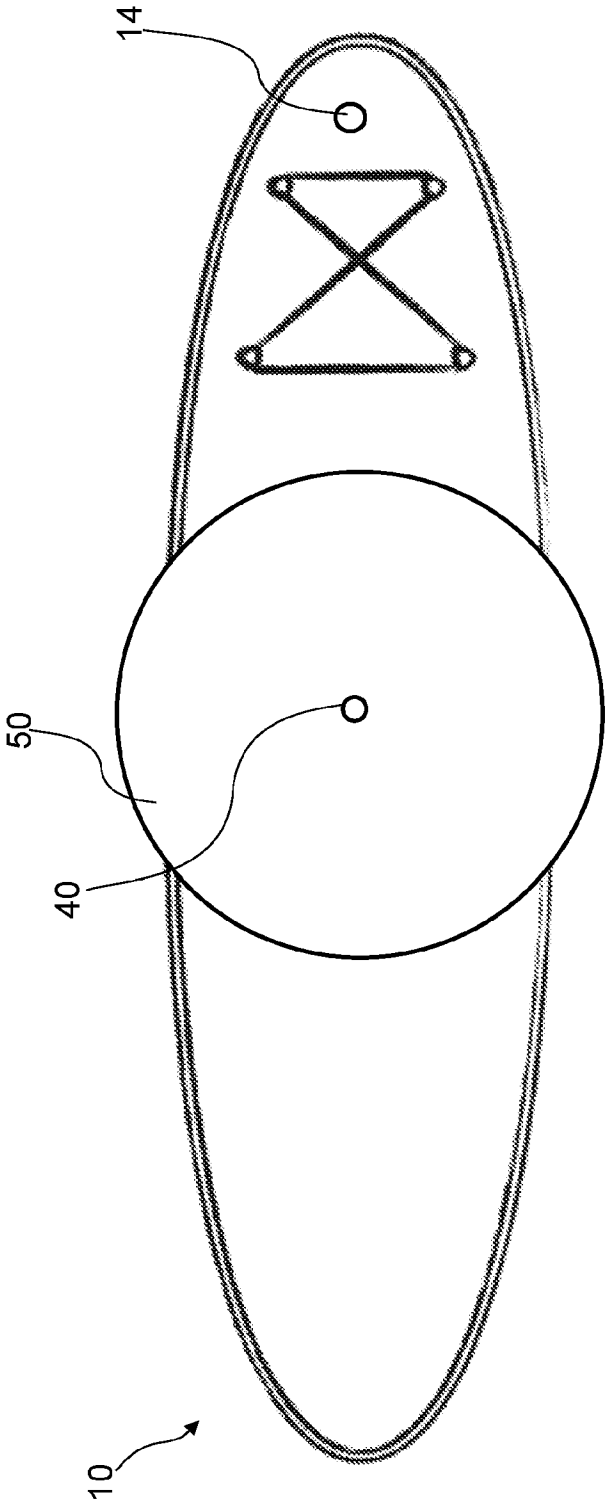


Fig. 8

INTERNATIONAL SEARCH REPORT

International application No
PCT/HU2024/050058

A. CLASSIFICATION OF SUBJECT MATTER
INV. B63B32/70 B63B34/26
ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
B63B A45B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 9 194 152 B1 (PLASENCIA FELIX M [US]) 24 November 2015 (2015-11-24) figures 1,2,4-6,24,25,27,30, 53, 54	1-4,7-11
X	US 5 394 822 A (WORLAND EVA J [US]) 7 March 1995 (1995-03-07) figures 1,8	1,2,4,8, 9,12,13
X	US 5 518 431 A (STALEY JAMES J [US]) 21 May 1996 (1996-05-21) figures 1,2,6	1,2,4,8, 9,12,13
X	US 7 984 686 B1 (SOLORZANO PATRICIO X [US]) 26 July 2011 (2011-07-26) figures 3,4A-5C	1,2,5, 8-10
X	US 8 201 510 B1 (ENGLING CHARLES W [US] ET AL) 19 June 2012 (2012-06-19) figures 1,5,6	1,2,4-6

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance;; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance;; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
24 October 2024	08/11/2024

Name and mailing address of the ISA/	Authorized officer
European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Mauriès, Laurent

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/HU2024/050058

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 9194152 B1	24-11-2015	NONE	
US 5394822 A	07-03-1995	NONE	
US 5518431 A	21-05-1996	NONE	
US 7984686 B1	26-07-2011	NONE	
US 8201510 B1	19-06-2012	NONE	

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/367,224	09/12/2023	3993	1328	1500/2US-RE	20	2

CONFIRMATION NO. 9298

CORRECTED FILING RECEIPT

36829
SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

OC000000092936838

Date Mailed: 08/15/2025

Receipt is acknowledged of this reissue patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Paul T. James, Wrightsville Beach, NC;

Applicant(s)

Solbello, Inc., Wilmington, NC, Assignee (with 37 CFR 1.172 Interest);

Power of Attorney: The patent practitioners associated with Customer Number 36829

Domestic Applications for which benefit is claimed

This application is a REI of 17/417,739 06/23/2021 PAT 11,596,211
which is a 371 of PCT/US20/38920 06/22/2020
which claims benefit of 62/892,700 08/28/2019

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see http://www.uspto.gov for more information.) **- None.**
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 10/18/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/367,224**

Projected Publication Date: None

Non-Publication Request: No

Early Publication Request: No
**** MICRO ENTITY ****
Title

SELF-ADJUSTING SUN SHADE ASSEMBLY

Preliminary Class

135

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Title 37, Code of Federal Regulations, 5.11 & 5.15

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.	:	18/367,224
CONFIRM NO.	:	9298
APPLICANT	:	Solbello, Inc.
FILED	:	September 12, 2023
ART UNIT	:	3993
EXAMINER	:	Terrence R. Till
DOCKET NO	:	1500/2US-RE
CUSTOMER NO	:	36829

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL AMENDMENT

Sir:

This is further responsive to the Examiner's Office Action dated April 15, 2025 (hereinafter "Office Action").

Amendments to the Claims are reflected in the listing of claims which begins on page 2 of this paper.

Remarks/Arguments begin on page 11 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (Cancelled).

21. (New) A sun shade assembly comprising:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

22. (Cancelled)

23. (New) The assembly of claim 21, wherein the ribs are configured at an angle of greater than 180 degrees relative to each other.

24. (New) The assembly of claim 21, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

25. (New) The assembly of claim 21, wherein the slider is configured as a collar that fits around the exterior circumference of the mast.

26. (New) The assembly of claim 21, wherein the anchor is releasably attached to the second end of the mast.

27. (New) The assembly of claim 21, wherein the sail channel comprises one or more apertures to facilitate insertion of the ribs into the channel.

28. (New) The assembly of claim 21, wherein the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm.

29. (New) The assembly of claim 21, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

30. (New) The assembly of claim 21, wherein the sail has a top face and a bottom face and wherein at least one of the top or bottom faces comprises a coating.

31. (New) The assembly of claim 21, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

32. (New) The assembly of claim 21, wherein the mast comprises at least one handle for gripping the mast.

33. (New) The assembly of claim 21, further comprising a tension adjuster that adjusts rotation of the pivot cap about the mast.

34. (New) The assembly of claim 33, wherein the tension adjuster is configured to permit the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

35. (New, Twice Amended) A method of using a sunshade, the method comprising:

positioning an anchor of a sun shade assembly in a support surface, wherein the sun shade assembly comprises:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

the anchor operably connected to the second end of the mast;

wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

36. (New) The method of claim 35, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

37. (New) The method of claim 35, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

38. (New) The method of claim 35, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

39. (New) The method of claim 35, wherein the sunshade assembly further comprises a tension adjuster that adjusts rotation of the pivot cap about the mast, and wherein the method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, support arms, slider, and sail relative to the non-movable mast.

40. (New) The method of claim 39, wherein the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

41. (New, Twice Amended) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface;

a pair of pivoted ribs carried by said mast and configured to rotate relative to the supporting surface, and said pivoted ribs adapted to lift outwardly from said mast at respective pivot points into an unfolded condition and to lower at respective pivot points from the unfolded condition to a folded condition alongside said mast;

a cap located at a top end of said mast, and wherein the first ends of said pivoted ribs are attached to said cap;

a sail having a proximal edge secured to each of said pivoted ribs, and an unrestrained free edge opposite the proximate edge;

whereby said sail is unfolded by lifting said pivot ribs outwardly from said mast from the folded condition into the unfolded condition such that the unrestrained free edge of said sail unfurls

in response to blowing of the wind, and wherein said sail and ribs rotate together to a direction of the blowing wind; and

a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and ribs in response to blowing of the wind.

42. (Cancelled)

43. (New, Twice Amended) The assembly of claim 41, wherein said cap is adapted to rotate about said mast, such that said sail and pivoted ribs when unfolded rotate together at an angle from about 0 to 360 degrees in response to blowing of the wind.

44. (Cancelled)

45. (New) The assembly of claim 41, and comprising an anchor located at a bottom end of said mast.

46. (New) The assembly of claim 41, and comprising at least one handle for gripping said mast.

47. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

at least one rib located proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge secured to said rib and an unrestrained free edge adapted to unfurl in response to blowing of the wind, and wherein an entire surface area of said sail is unrestrained from the proximal edge to the free edge; and

when unfurled, said sail and rib are adapted to rotate together to a direction of the blowing wind.

48. (New) The assembly of claim 47, wherein said at least one rib is attached to a cap located at the top end of said mast.

49. (Cancelled)

50. (New) The assembly of claim 48, further comprising a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and rib in response to blowing of the wind.

51. (New) The assembly of claim 47, and comprising an anchor located at the bottom end of said mast.

52. (New) The assembly of claim 47, and comprising at least one handle for gripping said mast.

53. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

a pair of pivoted ribs pivotably attached proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge defining a channel sized and shaped to receive each of said pivoted ribs, and an unrestrained free edge adapted to unfurl in response to blowing of the wind;

a slider configured to move up and down said mast, and operatively actuating said pivoted ribs such:

(i) that raising said slider on said mast causes said pivoted ribs to open outwardly from a folded condition into an unfolded condition thereby unfolding said sail, such that when unfolded said sail unfurls in response to blowing of the wind and rotates together with said pivoted ribs to a direction of the blowing wind; and

(ii) lowering said slider on said mast causes said pivoted ribs to fold downwardly into the folded condition adjacent said mast, such that said sail is folded for storage.

54. (New, Amended) A method of using a sunshade assembly, the method comprising:

extending a mast of the sunshade assembly upwardly from a supporting surface, the sunshade assembly further comprising a pair of pivoted ribs carried by the mast and configured to rotate relative to the supporting surface, and a sail having a proximal edge secured to each of the pivoted ribs and an unrestrained free edge opposite the proximate edge;

lifting the pivoted ribs outwardly from the mast at respective pivot points from a folded condition alongside the mast into an unfolded condition, such that in the unfolded condition the unrestrained free edge of the sail unfurls in response to blowing of the wind; and

when the sail is unfurled, enabling the sail and pivoted ribs to rotate together relative to the mast to a direction of the blowing wind.

55. (New) The method according to claim 54, and comprising adjustably controlling rotation of the sail and pivoted ribs in response to blowing of the wind.

56. (Cancelled)

57. (New) The method according to claim 54, and comprising lowering the pivoted ribs from the unfolded condition to the folded condition alongside the mast, thereby folding the sail for storage.

REMARKS/ARGUMENTS

In the present supplemental Response minor corrections are made to Claims 35, 41 and 43. Specifically, Claim 35 is further amended to delete the bracketed word "the" in first reference to the "anchor" and to change the word "an" to "the" in later reference to the "anchor." Claim 41 is further amended to delete the bracketed word "and". Claim 43 is further amended to remove the bracketed number "42".

For all these reasons discussed above, Applicant submits that all of the claims in the case are now in condition for allowance. Such action is therefore respectfully requested at an early date. If the Examiner believes that issues remain for discussion, he is invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

/jeffreyjschwartz/

Jeffrey J. Schwartz
Attorney for Applicant
Registration No. 37,532

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CONTINUATION SHEET

As required under 37 CFR 1.175, Applicant respectfully submits the following statement of at least one error which is relied upon to support the present reissue application. Claim 1 of Applicant's original patent (U.S. Pat. No. 11,596,211) contains certain unnecessary limitations which render the patent wholly or partially inoperative. Specifically, Claim 1 of the original patent recites the unnecessary limitation "at least one support arm". Original Claim 1 is broadened in the Preliminary Amendment filed on February 5, 2024 by removing this limitation from newly added independent Claims 41, 47, 53, 54.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**08/13/2025 03:01:25 PM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	71839639	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Reissue Declaration_Sign_8.2025.pdf	3	Oath or Declaration filed	1967 KB
Reissue declaration_Continuation Sheet.pdf	1	Oath or Declaration filed	57 KB
Supp_Response_8.2025-APP.TEXT.docx	11	Application body structured text document	29 KB

Warning: The claim status identifier is not valid. Please review and revise if necessary.
Document has [Balance SBCS characters and DBCS characters] option enabled and may result in reduction of pages, however, no data or text has been modified.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Reissue Declaration_Sign_8.2025.pdf	865AF1806794A182E7986B7AB935B23A4133138E724D33D9C48A4CC517DF6C17C6C0EA98717E3D392324A2EE14C875566E8F46BE7B7EBB69BB7A95E1F364CC71
Reissue declaration_Continuation Sheet.pdf	70364F5E4DA2461481E35674B42BECFFA3E8B0A5D9D33A5A75B1E06E71B4EC46930FF199B0F4AEB6C4AE33E56AE5CABCDD37D7B93E5E4DB6E2EE1CD2D6E8AB59
Supp_Response_8.2025-APP.TEXT.docx	AA0EFDA58A3350E627EFA82EF7AA63788CC3F5F8B429AFE03864C15C4E287052E0827C8CA7F4D6C548FAADFBEFCA7265C14C4D7306379AF987E80973D2CA6968

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/06 (09-20)
Approved for use through 03/31/2026. OMB 0651-0033
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REISSUE APPLICATION DECLARATION BY THE ASSIGNEE	Docket Number (optional) 1500/2US-RE

I hereby declare that:

The residence and mailing address of the inventor or joint inventors are stated below.

Name of the Assignee:

Solbello, Inc.

I am authorized to act on behalf of the assignee (if the assignee is a juristic entity).

The entire title to the patent identified below is vested in said assignee, or if there are multiple assignees/owners, all assignees/owners have executed a Reissue Application Declaration to account for the entire title of the patent identified below.

Inventor Paul T. James

Residence: City	State	Country
Wilmington	NC	US

Mailing Address

1508 Radian Road

City	State	Zip	Country
Wilmington	NC	28405	US

☐ Additional Inventors are named on separately numbered sheets attached hereto.

Patent Number 11,596,211	Patent Issue Date March 7, 2023

I believe said inventor(s) to be the original inventor or original joint inventors of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention titled:

SELF-ADJUSTING SUN SHADE ASSEMBLY

the specification of which

☐ is attached hereto.

☑ was filed on September 12, 2023 as reissue application number 18/367,224.

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below.
(Check all boxes that apply.)

☐ by reason of a defective specification or drawing.

☑ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

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REISSUE APPLICATION DECLARATION BY THE ASSIGNEE	Docket Number (Optional)

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, a claim that the application seeks to broaden must be identified and the box below must be checked:

Please see continuation sheet attached.

[Attach additional sheets, if needed.]

☑ **The application for the original patent was filed under 37 CFR 1.46 by the assignee of the entire interest.**

I hereby appoint:

☑ Practitioners associated with Customer Number: 36829

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Correspondence Address: Direct all communications about the application to:

☑ The address associated with Customer Number: 36829

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

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Signature	Date (Optional) 8/13/25
Legal name of person signing: Paul T. James	
Address of Assignee: 1508 Radian Road, Wilmington, NC 28405	

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If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

36829 7590 07/23/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

EXAMINER	
TILL, TERRENCE R	

ART UNIT	PAPER NUMBER
3993	

NOTIFICATION DATE	DELIVERY MODE
07/23/2025	ELECTRONIC

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JJS@SCHWARTZ-IPLAW.COM
RYLEE@SCHWARTZ-IPLAW.COM
uspto@dockettrak.com

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SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD SUITE 1135
CHARLOTTE, NC 28210

In re Application of Solbello, Inc.
Application No.: 18/367,224
Filing Date: 12 September 2023
Attorney Docket No.: 1500/2US-RE
For: SELF-ADJUSTING SUN SHADE ASSEMBLY

DECISION ON PETITION UNDER 37 CFR 1.78(c) AND 1.78 (e)

This is a decision on the petition under 37 CFR 1.78(c) and (e), filed 14 May 2025, to accept an unintentionally delayed claim under 35 U.S.C. 119(e) and 120 for the benefit of priority to one or more prior-filed provisional and nonprovisional/international applications.

Under 37 CFR 1.78(c) and (e), a petition to accept an unintentionally delayed claim under 35 U.S.C. 119 (e) and 120 for the benefit of a prior-filed application must be accompanied by:

(i) the reference required by 35 U.S.C. 119(e) and 120 and 37 CFR 1.78(a)(3) and 1.78(d)(2) to the prior-filed applications, unless previously submitted;

(ii) the petition fee set forth in 37 CFR 1.17(m); and

(iii) a statement that the entire delay between the date the claim was due under 37 CFR 1.78(a)(4) and (d)(3) and the date the claim was filed was unintentional. The Director may require additional information where there is a question whether the delay was unintentional.

With regard to item (i), a proper reference to the prior-filed applications has been included in an application data sheet as required by 37 CFR 1.78(a)(3) and (d)(2).

With regard to item (ii), the petition fee set forth in 37 CFR 1.17(m) has been submitted.

With regard to item (iii), the petition contains a proper statement of unintentional delay.

For the reasons above, the petition under 37 CFR 1.78(c) and (e) is **GRANTED.**

Applicant is advised that the inclusion of a prior-filed application on any filing receipt should not be construed as meaning that the application is necessarily entitled to the benefit of the prior-filed application. In order for an application to be entitled to the benefit of the prior-filed application, all other requirements under 35 U.S.C. 119(e) and 120 and 37 CFR 1.78 must be met. The examiner will, in due course, determine whether this application is entitled to the benefit of an earlier filing date.

This matter is being referred to Technology Center Art Unit 3993 for appropriate action, including consideration by the examiner of applicant's entitlement to the benefit of priority under 35 U.S.C. 119(e) and 120 to any prior-filed applications.

/George Dombroske/
GEORGE DOMBROSKE
PCT Legal Examiner
International Patent Legal Administration
(571)272-3283

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

36829 7590 05/27/2025

SCHWARTZ LAW FIRM, P.C.
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EXAMINER	
TILL, TERRENCE R	

ART UNIT	PAPER NUMBER
3993	

NOTIFICATION DATE	DELIVERY MODE
05/27/2025	ELECTRONIC

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OAKLYN@SCHWARTZ-IPLAW.COM
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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR/ PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
18/367,224	09/12/2023	James, Paul T.	1500/2US-RE

SCHWARTZ LAW FIRM, P.C.
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CHARLOTTE, NC 28210

EXAMINER	
adriene D sellman	
ART UNIT	PAPER
OTOR	20250523

DATE MAILED: _____

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Commissioner for Patents

Please disregard the Notice requiring excess claims fee sent on 05/21/25 it was sent in error. Thanks

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

36829 7590 05/21/2025

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EXAMINER	
TILL, TERRENCE R	

ART UNIT	PAPER NUMBER
3993	

NOTIFICATION DATE	DELIVERY MODE
05/21/2025	ELECTRONIC

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JJS@SCHWARTZ-IPLAW.COM
OAKLYN@SCHWARTZ-IPLAW.COM
uspto@dockettrak.com

NOTICE REQUIRING EXCESS CLAIMS FEES	Application No.	Applicant(s)
	18/367,224	James, Paul T.
	Art Unit	AIA (FITF) Status
	OTOR	Yes

The excess claim(s) filed on 14 May 2025 is/are not accompanied by the appropriate payment of excess claims fees set forth in 37 CFR 1.16(h)-(j) or 1.492(d)-(f). Excess claims fees are required for each claim in independent form in excess of three (§ 1.16(h)), each claim (whether dependent or independent) in excess of twenty (note that § 1.75(c) indicates how multiple dependent claims are considered for fee calculation purposes) (§ 1.16(i)), and each application that contains a multiple dependent claim (§ 1.16(j)).

Since the application is not under a final rejection, applicant is given a time period of **TWO (2) MONTHS** from the mailing date of this notice to submit either: (1) the fee payment of $ _____, or (2) an amendment in compliance with 37 CFR 1.121 that cancels the excess claim(s), in order to avoid ABANDONMENT. Extensions of this time period may be granted under 37 CFR 1.136, unless the excess claim(s) was/were presented in a preliminary amendment.

☐ 1. The funds in Deposit Account No. _____ are insufficient to cover the entire fee due. The balance is due within the time period set forth in this notice. See note below regarding the appropriate service charge.

☐ 2. The Credit Card payment to cover the entire fee due to Account _____ (**Card type + last 4 digits ONLY**) was refused. The balance is due within the time period set forth in this notice. See note below regarding the appropriate service charge.

☑ 3. The amendment that includes the excess claim(s) has not been entered, since applicant has failed to remit (or authorize charge to a Deposit Account or Credit Card) the fee as indicated on the attached Patent Application Fee Determination Record (PTO/SB/06). Remittance or authorization is due within the time period set forth in this notice .

☑ 4. The fee submitted in this application is insufficient. A balance of $ 720.00 is due for presentation of excess claims (37 CFR 1.16(h)-(j) or 1.492(d)-(f)).

☑ 5. Other.

Explanation (*Provide specific details of the required correction in order to assist the applicant. Indicate whether a service charge has been added to the fee due*): Claims fee $480.00-12, independent claims $240.00 claims -2

THE AMOUNT OF THE FEE(S) DUE IS SUBJECT TO CHANGE, GENERALLY ON OCTOBER 1 OF EACH YEAR (37 CFR 1.16, 1.21 & 1.492). THE **AMOUNT OF THE FEE(S) DUE IS DETERMINED AS OF THE DATE A COMPLETE REPLY WITH THE APPROPRIATE FEE(S) IS RECEIVED BY THE OFFICE** (37 CFR 1.8 & 1.10). BECAUSE THE AMOUNT DUE IS SUBJECT TO CHANGE, IT IS RECOMMENDED THAT APPLICANT CHECK THE CURRENT FEE SCHEDULE WHICH IS AVAILABLE ON THE USPTOS WEBSITE AT: ***http://www.uspto.gov/web/offices/ac/qs/ope/fees.htm***

Service Charges: There is a $50 service charge for processing each payment refused (including a check returned unpaid) or charged back by a financial institution (37 CFR 1.21(m)). There is a $25.00 service charge for each month when the balance of a deposit account is below $1000 at the end of the month (37 CFR 1.21(b)(2)).

Technical Support Staff (TSS): /ADRIENE D. SELLMAN/ Phone Number: (571)272-1046

Note to TSS: Please do NOT use this notice if the application is under a final rejection.

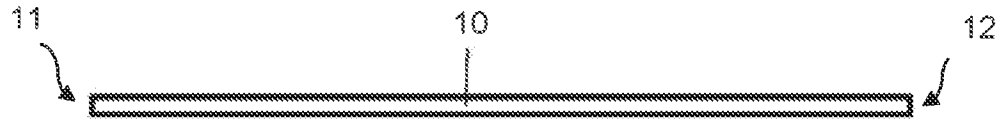


Fig. 2a

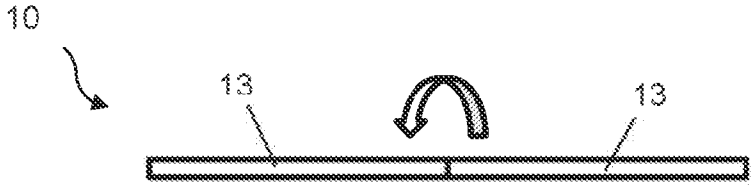


Fig. 2b



Fig. 2c

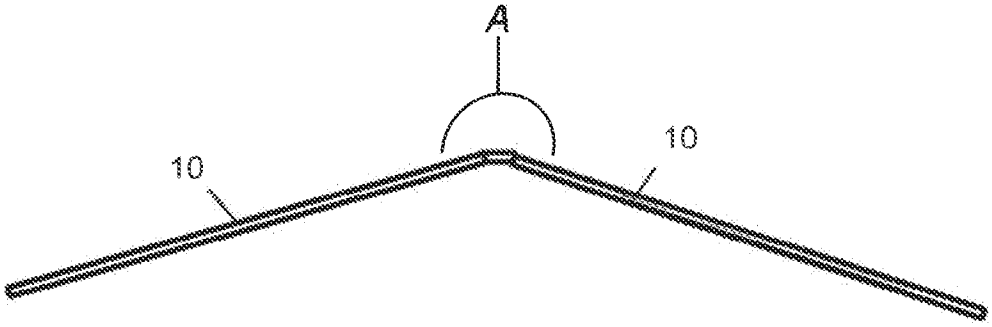


Fig. 2d

Amended

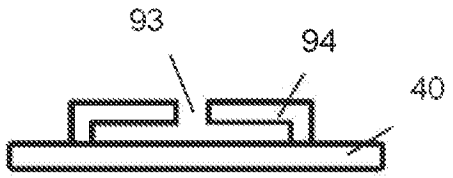


Fig. 3d

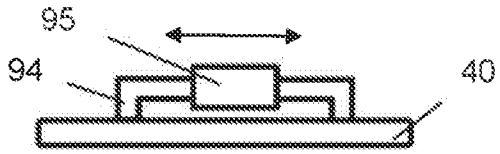


Fig. 3e

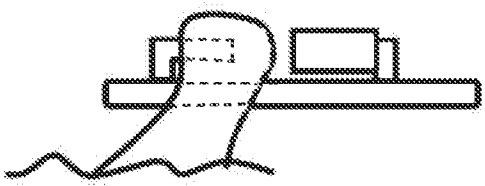


Fig. 3f

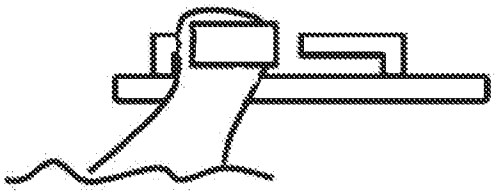


Fig. 3g

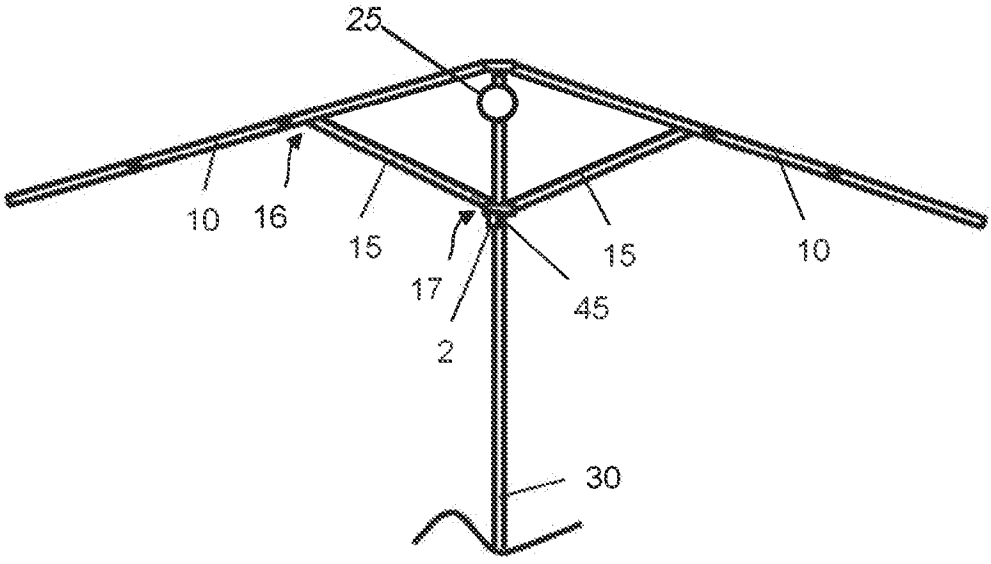


Fig. 4a

Amended

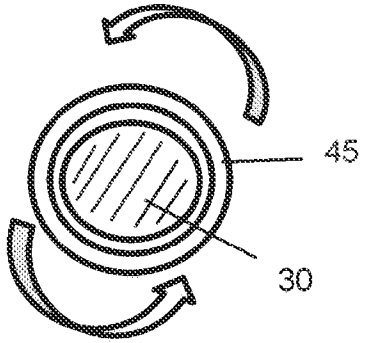


Fig. 4b

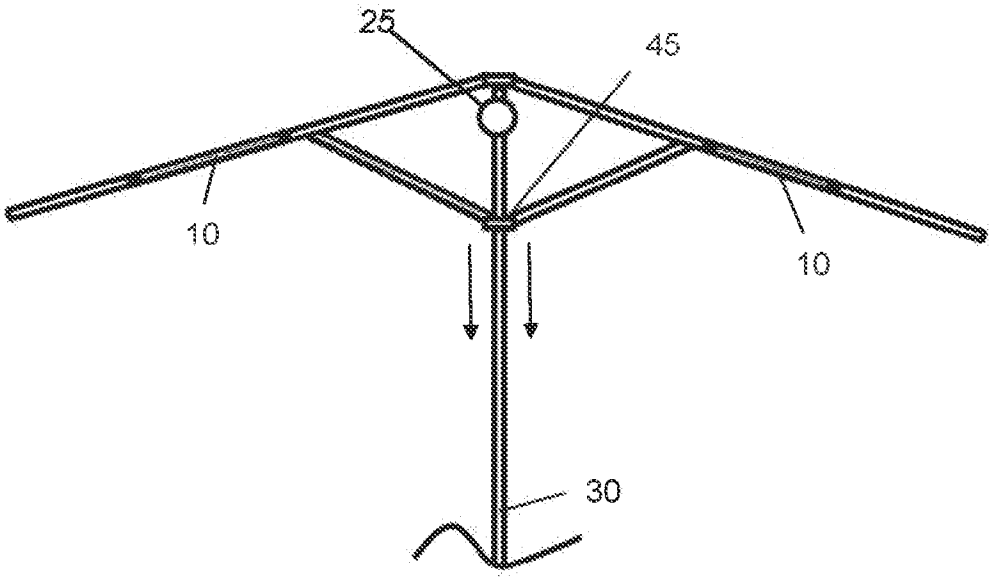


Fig. 4c

Amended

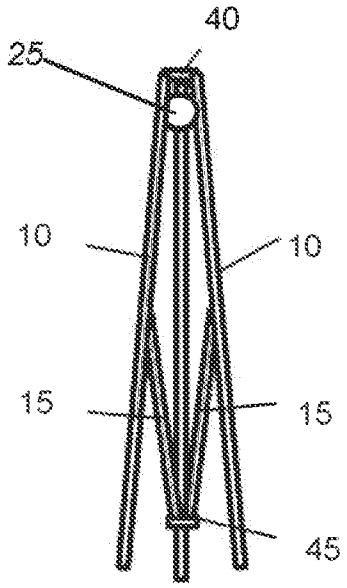


Fig. 4d
Amended

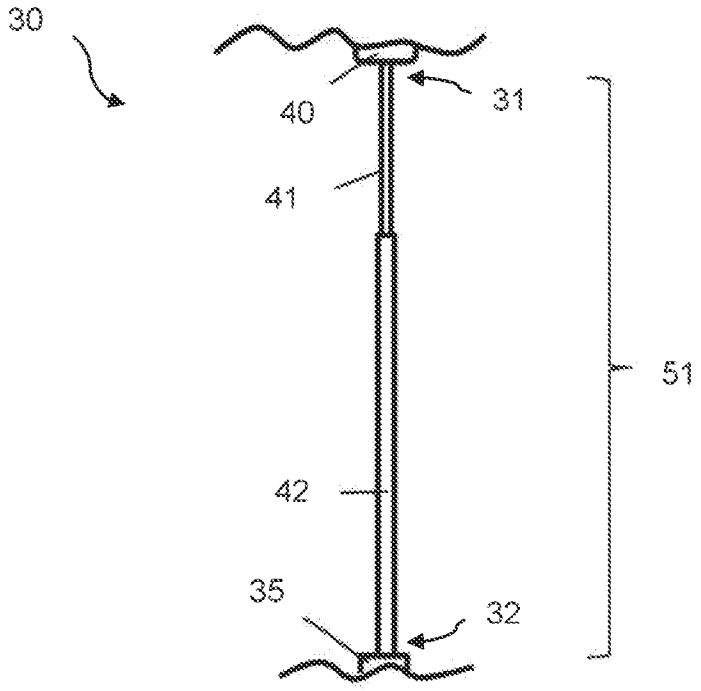


Fig. 5a

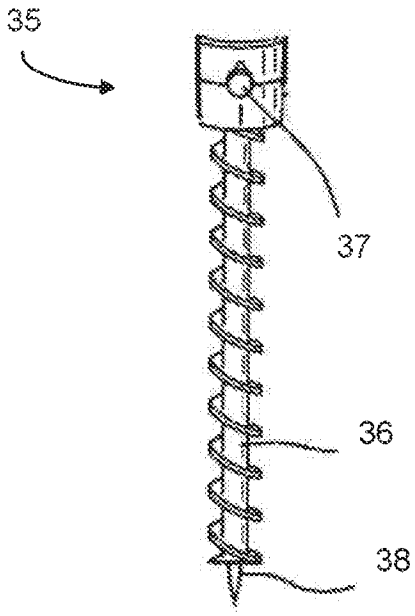


Fig. 6

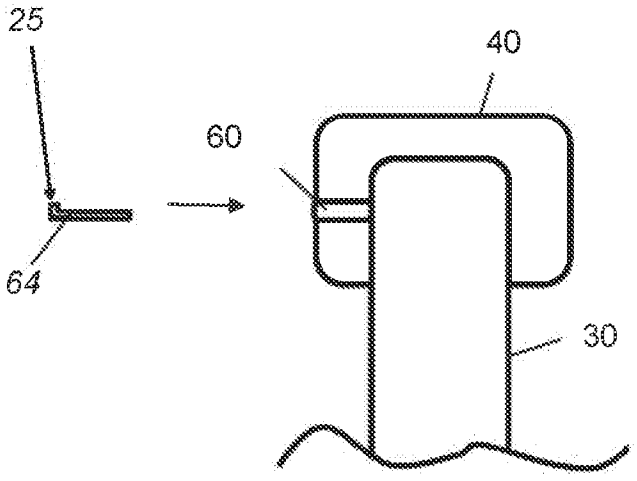


Fig. 7a

Amended

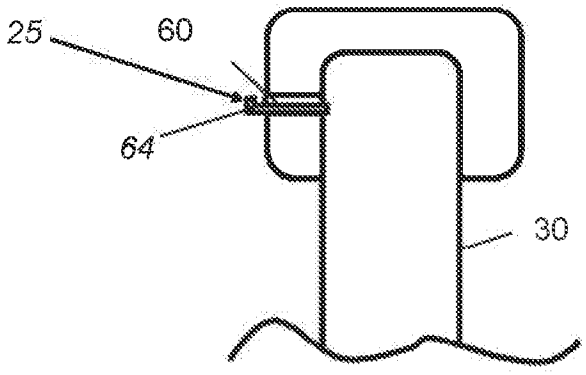


Fig. 7b
Amended

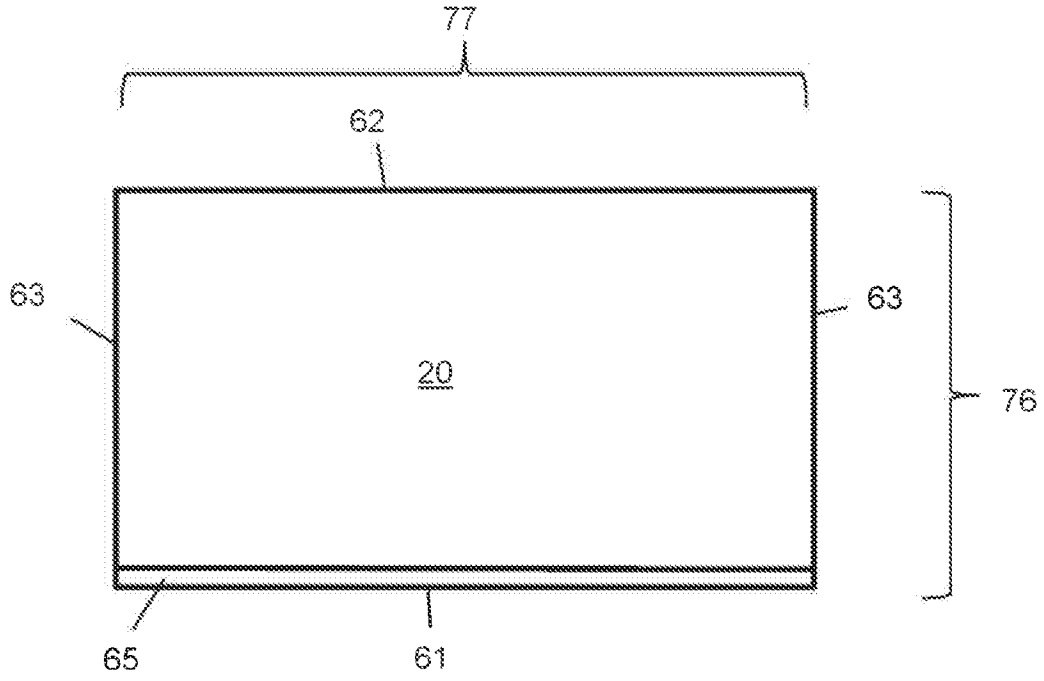


Fig. 8a
Amended

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**05/14/2025 12:48:23 PM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	70425352	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 4

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Response_5.2025-APP.TEXT.docx	21	Application body structured text document	36 KB
Warning: Document has [Balance SBCS characters and DBCS characters] option enabled and may result in reduction of pages, however, no data or text has been modified. The claim status identifier is not valid. Please review and revise if necessary.			
DWGS_REPLACEMENT.pdf	6	Drawings-only black and white line drawings	311 KB
Response_DWGS.pdf	2	Transmittal Letter	104 KB
Reissue declaration_5.2025.pdf	4	Oath or Declaration filed	573 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Response_5.2025-APP.TEXT.docx	442F0EA4CB4BB843776D30C9B29B64BB71F6440463E66ACE8339D86C28C90CDC8EEF48DAEC37319F99CD51E17D352EDD944F3489969EE4A429232370CE23DA3E
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Reissue declaration_5.2025.pdf	9242C7B81192EE03DD8F190EB37A39A7123D8BCE9FD11C213C62C53E7EE1E27895EE337F699607BE8A28CDC964D3899977A5344205F75EE023D1EE6F006C47B5

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.	:	18/367,224
CONFIRM NO.	:	9298
APPLICANT	:	Solbello, Inc.
FILED	:	September 12, 2023
ART UNIT	:	3993
EXAMINER	:	Terrence R. Till
DOCKET NO	:	1500/2US-RE
CUSTOMER NO	:	36829

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

Sir:

This is responsive to the Examiner's Office Action dated April 15, 2025 (hereinafter "Office Action").

Amendments to the Specification are identified on page 2 of this paper.

Amendments to the Drawings are referenced at page 5 of this paper and include the attached Replacement Sheets.

Amendments to the Claims are reflected in the listing of claims which begins on page 6 of this paper.

Remarks/Arguments begin on page 14 of this paper.

Amendments to the Specification:

▸ *Please replace the paragraph beginning at column 5, line 61 with the following*:

FIG. 1 illustrates one embodiment of sun shade assembly 5. Particularly, the assembly includes sail 20 that releasably attaches to a pair of ribs 10, providing shade to the user. At least one support arm 15 can be used to reinforce ribs 10. Mast 30 provides height to the assembly and includes anchor 35 located at its bottom end that allows the assembly to be secured into a support surface (e.g., sand). The ribs and support arms rotate about the mast, thereby self-adjusting the direction of sail 20 in response to the wind blowing, as described in more detail below. The assembly further includes tension adjuster 25 (e.g., Figs. 7a and 7b) that can be tightened or loosed to control the rotation of the ribs and support arms in response to wind conditions. The tension adjuster 25 is also shown diagrammatically in Figures 1, 4a, 4c, and 4d, and is discussed further below.

▸ *Please replace the paragraph beginning at column 6, line 27 with the following*:

The ribs can be slightly offset relative to each other (e.g., are not 180 degrees apart). The offset nature allows the ribs to compensate for stretching of the sail. For example, in some embodiments, the angle [16] "A" between ribs 10 can be about 180-300 degrees, as shown in FIG. 2 d . Thus, the angle between ribs 10 can be at least/no more than about 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, or 290 degrees. It should be appreciated that angle 16 is not limited and can be larger or smaller than the range set forth herein. The ribs can be fully folded, such as in a storage position, as shown in FIG. 2e.

▸ *Please replace the paragraph beginning at column 6, line 63 with the following*:

In some embodiments, one face of pivot cap 40 includes bridge 94 comprising opening 93 and slidable arm 95 that can be used to releasably lock the sail into proper position, as shown in FIGS. 3c-3e . Particularly, a portion of the sail can be inserted into opening [94] 93. Arm 95 can then be slid to trap the portion of the sail over the bridge, as shown in FIGS. 3f and 3g . Thus, a portion of the sail is trapped between the bridge and the arm. To release the sail, the arm can be slid to expose opening 93, thereby allowing the sail to be removed. The term "bridge" refers to any device that has a raised portion with an opening configured therein. In some embodiments, the arm can fully surround at least a segment of the raised bridge portion.

▸ *Please replace the paragraph beginning at column 8, line 62 with the following*:

The disclosed assembly further includes tension adjuster 25 that allows a user to adjust the tension on the pivot cap 40 relative to the mast 30 easily and safely. In this way, a user can alter the amount of rotation ribs 10, support arms 15 and slider 45 have about mast 30 in response to wind conditions. The tension adjuster 25 can be generally located within or adjacent to the pivot cap 40. The tension adjuster 25 [is also attached to] engages the mast 30 using any known mechanism (e.g., screws, bolts, clips, etc.).

▸ *Please replace the paragraph beginning at column 9, line 18 with the following*:

Tension adjuster 25 can have any desired configuration that allows a user to control the level of movement of the [tension] pivot cap 40 relative to the mast 30. For example, in some embodiments, the tension adjuster 25 can include passageway 60 with actuator [65] 64 (e.g., lever or screw) capable of contacting pivot cap 40, as shown in FIGS. 7a and 7b. Adjusting the actuator 64 through the passageway 60 will increase or decrease the tension on the pivot cap 40. Specifically, if the actuator 64 is tightened to fully contact the pivot cap 40, the pivot cap 40 will

be incapable of moving relative to the mast 30. Alternatively, if the actuator 64 is loosened such that it does not fully contact or press against the mast 30, the pivot cap 40 is free to rotate. Any degree of actuator tightening can therefore adjust the level of pivot cap rotation.

▸ *Please replace the paragraph beginning at column 9, line 41 with the following*:

Further, actuator [65] 64 can have any known configuration, such as (but not limited to) a lever, wrench, key, screw, handle, knob, bolt, and the like.

▸ *Please replace the paragraph beginning at column 9, line 52 with the following*:

Assembly 5 further includes sail 20 that cooperates with ribs 10. As shown in FIGS. 8a and 8b, the sail can include proximal front edge 61, unrestrained free rear edge 62, and a pair of side edges 63. The sail further includes top face 70 and bottom face 71. In exemplary embodiments, the entire surface area of the sail 20 is unrestrained from its proximal front edge 61 to the free rear edge 62, such that the sail 20 unfurls in response to blowing of the wind when the support arms 15 and ribs 10 are unfolded outward as shown in Figure 4a. The support arms 15 and ribs 10 rotate together with the sail 20 to the direction of the blowing wind.

Amendments to the Drawings:

The attached Replacement Sheets include amendments to the drawings, identified as follows:

In Figure 2d, the angle originally referenced at "16" has been changed to "A".

In Figure 4a, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4c, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4d, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 7a, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 7b, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 8a, the reference numeral "66" has been deleted.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (Cancelled).

21. (New) A sun shade assembly comprising:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

22. (Cancelled)

23. (New) The assembly of claim 21, wherein the ribs are configured at an angle of greater than 180 degrees relative to each other.

24. (New) The assembly of claim 21, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

25. (New) The assembly of claim 21, wherein the slider is configured as a collar that fits around the exterior circumference of the mast.

26. (New) The assembly of claim 21, wherein the anchor is releasably attached to the second end of the mast.

27. (New) The assembly of claim 21, wherein the sail channel comprises one or more apertures to facilitate insertion of the ribs into the channel.

28. (New) The assembly of claim 21, wherein the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm.

29. (New) The assembly of claim 21, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

30. (New) The assembly of claim 21, wherein the sail has a top face and a bottom face and wherein at least one of the top or bottom faces comprises a coating.

31. (New) The assembly of claim 21, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

32. (New) The assembly of claim 21, wherein the mast comprises at least one handle for gripping the mast.

33. (New) The assembly of claim 21, further comprising a tension adjuster that adjusts rotation of the pivot cap about the mast.

34. (New) The assembly of claim 33, wherein the tension adjuster is configured to permit the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

35. (New, Amended) A method of using a sunshade, the method comprising:

positioning [the] an anchor of a sun shade assembly in a support surface, wherein the sun shade assembly comprises:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

36. (New) The method of claim 35, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

37. (New) The method of claim 35, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

38. (New) The method of claim 35, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

39. (New) The method of claim 35, wherein the sunshade assembly further comprises a tension adjuster that adjusts rotation of the pivot cap about the mast, and wherein the method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, support arms, slider, and sail relative to the non-movable mast.

40. (New) The method of claim 39, wherein the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

41. (New, Amended) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface;

a pair of pivoted ribs carried by said mast and configured to rotate relative to the supporting surface, and said pivoted ribs adapted to lift outwardly from said mast at respective pivot points into an unfolded condition and to lower at respective pivot points from the unfolded condition to a folded condition alongside said mast;

a cap located at a top end of said mast, and wherein the first ends of said pivoted ribs are attached to said cap;

a sail having a proximal edge secured to each of said pivoted ribs, and an unrestrained free edge opposite the proximate edge; [and]

whereby said sail is unfolded by lifting said pivot ribs outwardly from said mast from the folded condition into the unfolded condition such that the unrestrained free edge of said sail unfurls

in response to blowing of the wind, and wherein said sail and ribs rotate together to a direction of the blowing wind; and

a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and ribs in response to blowing of the wind.

42. (Cancelled)

43. (New, Amended) The assembly of claim [42] 41, wherein said cap is adapted to rotate about said mast, such that said sail and pivoted ribs when unfolded rotate together at an angle from about 0 to 360 degrees in response to blowing of the wind.

44. (Cancelled)

45. (New) The assembly of claim 41, and comprising an anchor located at a bottom end of said mast.

46. (New) The assembly of claim 41, and comprising at least one handle for gripping said mast.

47. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

at least one rib located proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge secured to said rib and an unrestrained free edge adapted to unfurl in response to blowing of the wind, and wherein an entire surface area of said sail is unrestrained from the proximal edge to the free edge; and

when unfurled, said sail and rib are adapted to rotate together to a direction of the blowing wind.

48. (New) The assembly of claim 47, wherein said at least one rib is attached to a cap located at the top end of said mast.

49. (Cancelled)

50. (New) The assembly of claim 48, further comprising a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and rib in response to blowing of the wind.

51. (New) The assembly of claim 47, and comprising an anchor located at the bottom end of said mast.

52. (New) The assembly of claim 47, and comprising at least one handle for gripping said mast.

53. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

a pair of pivoted ribs pivotably attached proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge defining a channel sized and shaped to receive each of said pivoted ribs, and an unrestrained free edge adapted to unfurl in response to blowing of the wind;

a slider configured to move up and down said mast, and operatively actuating said pivoted ribs such:

(i) that raising said slider on said mast causes said pivoted ribs to open outwardly from a folded condition into an unfolded condition thereby unfolding said sail, such that when unfolded said sail unfurls in response to blowing of the wind and rotates together with said pivoted ribs to a direction of the blowing wind; and

(ii) lowering said slider on said mast causes said pivoted ribs to fold downwardly into the folded condition adjacent said mast, such that said sail is folded for storage.

54. (New, Amended) A method of using a sunshade assembly, the method comprising:

extending a mast of the sunshade assembly upwardly from a supporting surface, the sunshade assembly further comprising a pair of pivoted ribs carried by the mast and configured to rotate relative to the supporting surface, and a sail having a proximal edge secured to each of the pivoted ribs and an unrestrained free edge opposite the proximate edge;

lifting the pivoted ribs outwardly from the mast at respective pivot points from a folded condition alongside the mast into an unfolded condition, such that in the unfolded condition the unrestrained free edge of the sail unfurls in response to blowing of the wind; and

when the sail is unfurled, enabling the sail and pivoted ribs to rotate together relative to the mast to a direction of the blowing wind.

55. (New) The method according to claim 54, and comprising adjustably controlling rotation of the sail and pivoted ribs in response to blowing of the wind.

56. (Cancelled)

57. (New) The method according to claim 54, and comprising lowering the pivoted ribs from the unfolded condition to the folded condition alongside the mast, thereby folding the sail for storage.

REMARKS/ARGUMENTS

This is responsive to the Claims 21-57 in the case are pending, and stand rejected under 35 U.S.C. 251 based upon a defective reissue oath/declaration. Claims 35-40 have been rejected under 35 U.S.C. 112(b) as outlined in the Office Action. Claims 22 and 49 have been rejected under 35 U.S.C. 112(d) as being improper dependent form for failing to further limit the subject matter of the claim upon which it depends. Claims 41-43, 45, 46, 54, 55 and 57 have been rejected under 35 U.S.C. 102 (a)(1) as being anticipated by Saiz (US 2008/0196754)[hereinafter "Saiz"]. In additions, objections have been made regarding the Application Data Sheet (ADS), the drawings and the specification. Each of the objections and claim rejections are discussed separately below.

I. APPLICATION DATA SHEET (ADS)

The Office Action states that the original ADS filed on September 12, 2023 claimed priority only to non-provisional Application Serial No. 17/417,739. As correctly noted by the Examiner, the ADS should have also included priority claims to PCT/US20/38920 and Provisional Application Serial No. 62/992,700. A corrected ADS is submitted with the present response. Applicant has also submitted a petition for review by the Office of Petitions to accept the unintentionally delayed priority claim, and is requesting a corrected filing receipt.

II. DRAWINGS AMENDMENTS

The attached Replacement Sheets include amendments to the drawings, identified as follows:

In Figure 2d, the angle originally referenced at "16" has been changed to "A".

In Figure 4a, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4c, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4d, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 7a, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 7b, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 8a, the reference numeral "66" has been deleted.

The above amendments to the original drawings address all issues raised by the patent examiner in his Office Action. No new matter has been added to the drawings.

III. AMENDMENTS TO THE SPECIFICATION

The specification has been amended, as follows:

▸ *The paragraph beginning at column 5, line 61 has been replaced with the following*:

FIG. 1 illustrates one embodiment of sun shade assembly 5. Particularly, the assembly includes sail 20 that releasably attaches to a pair of ribs 10, providing shade to the user. At least one support arm 15 can be used to reinforce ribs 10. Mast 30 provides height to the assembly and includes anchor 35 located at its bottom end that allows the assembly to be secured into a support surface (e.g., sand). The ribs and support arms rotate about the mast, thereby self-adjusting the direction of sail 20 in response to the wind blowing, as described in more detail below. The assembly further includes tension adjuster 25 (e.g., Figs. 7a and 7b) that can be tightened or loosed to control the rotation of the ribs and support arms in response to wind conditions. The tension adjuster 25 is also shown diagrammatically in Figures 1, 4a, 4c, and 4d, and is discussed further below.

▸ *The paragraph beginning at column 6, line 27 has been replaced with the following*:

The ribs can be slightly offset relative to each other (e.g., are not 180 degrees apart). The offset nature allows the ribs to compensate for stretching of the sail. For example, in some

embodiments, the angle [16] "A" between ribs 10 can be about 180-300 degrees, as shown in FIG. 2 d . Thus, the angle between ribs 10 can be at least/no more than about 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, or 290 degrees. It should be appreciated that angle 16 is not limited and can be larger or smaller than the range set forth herein. The ribs can be fully folded, such as in a storage position, as shown in FIG. 2e.

▸ *The paragraph beginning at column 6, line 63 has been replaced with the following*:

In some embodiments, one face of pivot cap 40 includes bridge 94 comprising opening 93 and slidable arm 95 that can be used to releasably lock the sail into proper position, as shown in FIGS. 3c-3e . Particularly, a portion of the sail can be inserted into opening [94] 93. Arm 95 can then be slid to trap the portion of the sail over the bridge, as shown in FIGS. 3f and 3g . Thus, a portion of the sail is trapped between the bridge and the arm. To release the sail, the arm can be slid to expose opening 93, thereby allowing the sail to be removed. The term "bridge" refers to any device that has a raised portion with an opening configured therein. In some embodiments, the arm can fully surround at least a segment of the raised bridge portion.

▸ *The paragraph beginning at column 8, line 62 has been replaced with the following*:

The disclosed assembly further includes tension adjuster 25 that allows a user to adjust the tension on the pivot cap 40 relative to the mast 30 easily and safely. In this way, a user can alter the amount of rotation ribs 10, support arms 15 and slider 45 have about mast 30 in response to wind conditions. The tension adjuster 25 can be generally located within or adjacent to the pivot cap 40. The tension adjuster 25 [is also attached to] engages the mast 30 using any known mechanism (e.g., screws, bolts, clips, etc.).

▸ *The paragraph beginning at column 9, line 18 has been replaced with the following*:

Tension adjuster 25 can have any desired configuration that allows a user to control the level of movement of the [tension] pivot cap 40 relative to the mast 30. For example, in some embodiments, the tension adjuster 25 can include passageway 60 with actuator [65] 64 (e.g., lever or screw) capable of contacting pivot cap 40, as shown in FIGS. 7a and 7b. Adjusting the actuator 64 through the passageway 60 will increase or decrease the tension on the pivot cap 40. Specifically, if the actuator 64 is tightened to fully contact the pivot cap 40, the pivot cap 40 will be incapable of moving relative to the mast 30. Alternatively, if the actuator 64 is loosened such that it does not fully contact or press against the mast 30, the pivot cap 40 is free to rotate. Any degree of actuator tightening can therefore adjust the level of pivot cap rotation.

▸ *The paragraph beginning at column 9, line 41 has been replaced with the following*:

Further, actuator [65] 64 can have any known configuration, such as (but not limited to) a lever, wrench, key, screw, handle, knob, bolt, and the like.

▸ *The paragraph beginning at column 9, line 52 has been replaced with the following*:

Assembly 5 further includes sail 20 that cooperates with ribs 10. As shown in FIGS. 8a and 8b, the sail can include proximal front edge 61, unrestrained free rear edge 62, and a pair of side edges 63. The sail further includes top face 70 and bottom face 71. In exemplary embodiments, the entire surface area of the sail 20 is unrestrained from its proximal front edge 61 to the free rear edge 62, such that the sail 20 unfurls in response to blowing of the wind when the support arms 15 and ribs 10 are unfolded outward as shown in Figure 4a. The support arms 15 and ribs 10 rotate together with the sail 20 to the direction of the blowing wind.

The above amendments to the original specification address all issues raised by the patent examiner in his Office Action. Specifically, the amendments provide antecedent basis for all elements and limitations of the pending claims. No new matter has been added to the specification.

IV. CLAIM AMENDMENTS

Claims 22 and 49 are cancelled herein.

In amended Claim 35, antecedent basis has been provided for the "anchor".

Independent Claim 41 is amended to incorporate the subject matter of allowable dependent Claim 44 and intervening dependent Claim 42.

Claims 42 and 44 are cancelled herein.

The dependency of Claim 43 has been changed from cancelled Claim 42 to amended independent Claim 41.

Independent Claim 54 is amended to incorporate the subject matter of allowable dependent Claim 56.

Claim 56 is cancelled herein.

V. REISSUE OATH/DECLARATION

Applicant has submitted a corrected Reissue Oath/Declaration with the present response. This document is signed by an officer of the Reissue Applicant and complies with the requirements of 37 CFR 1.175. Specifically, Applicant submits that Claim 1 of the original patent (U.S. Pat. No. 11,596,211) contains certain unnecessary limitations which render the patent wholly or partially inoperative; namely, the unnecessary limitation "*at least one support arm*". Original Claim 1 of the patent is broadened in the Reissue Application by removing this limitation from newly added independent Claims 41, 47, 53, 54.

VI. ARGUMENT

Applicant's Supplemental Reissue Oath/Declaration addresses the claim rejection under 35 U.S.C. 251. The rejection of Claims 35-40 under 35 U.S.C. 112(b) is addressed with the amendment to Claim 35; namely, providing antecedent basis for the claim term "anchor." Claims 22 and 49 are cancelled herein, thereby addressing the rejection under 35 U.S.C. 112(d).

With regard to the cited prior art, Applicant notes the rejection of Claims 41-43, 45, 46, 54, 55 and 57 under 35 U.S.C. 102 (a)(1) as being anticipated by Saiz. This art has not been applied to Claims 21-40, 44, 47-53, and 56. The claims are presumed to recite allowable subject matter. As such, independent Claim 41 has been amended herein to incorporate the subject matter of allowable Claim 44 and intervening Claim 42. Amended Claim 41 and all claims dependent on amended Claim 41 are now considered allowable. Independent Claim 54 is amended to incorporate the subject matter of allowable dependent Claim 56. Amended Claim 54 and all claims dependent on amended Claim 54 are now considered allowable.

For all these reasons discussed above, Applicant submits that all of the claims in the case are now in condition for allowance. Such action is therefore respectfully requested at an early date. If the Examiner believes that issues remain for discussion, he is invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

/jeffreyjschwartz/

Jeffrey J. Schwartz
Attorney for Applicant

Registration No. 37,532

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Schwartz Law Firm, P.C.
SouthPark Towers
6100 Fairview Road, Suite 1135
Charlotte, North Carolina 28210
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Fax: 704-552-1866
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.	:	18/367,224
CONFIRM NO.	:	9298
APPLICANT	:	Solbello, Inc.
FILED	:	September 12, 2023
ART UNIT	:	3993
EXAMINER	:	Terrence R. Till
DOCKET NO	:	1500/2US-RE
CUSTOMER NO	:	36829

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

Sir:

This is responsive to the Examiner's Office Action dated April 15, 2025 (hereinafter "Office Action"). The attached Replacement Sheets include amendments to the drawings, identified as follows:

In Figure 2d, the angle originally referenced at "16" has been changed to "A".

In Figure 4a, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4c, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4d, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 7a, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 7b, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 8a, the reference numeral "66" has been deleted.

The above amendments to the original drawings address all issues raised by the patent examiner in his Office Action. No new matter has been added to the drawings.

If the Examiner believes that issues remain for discussion, he is invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

/jeffreyjschwartz/

Jeffrey J. Schwartz
Attorney for Applicant
Registration No. 37,532

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Doc Code: REIS.DECL
Document Description: Reissue Oath or Declaration

PTO/AIA/06 (09-20)
Approved for use through 03/31/2026. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REISSUE APPLICATION DECLARATION BY THE ASSIGNEE	Docket Number (optional) 1500/2US-RE

I hereby declare that:

The residence and mailing address of the inventor or joint inventors are stated below.

Name of the Assignee:

Solbello, Inc.

I am authorized to act on behalf of the assignee (if the assignee is a juristic entity).

The entire title to the patent identified below is vested in said assignee, or if there are multiple assignees/owners, all assignees/owners have executed a Reissue Application Declaration to account for the entire title of the patent identified below.

Inventor Paul T. James

Residence: City	State	Country
Wilmington	NC	US

Mailing Address
1508 Radian Road

City	State	Zip	Country
Wilmington	NC	28405	US

☐ Additional Inventors are named on separately numbered sheets attached hereto.

Patent Number 11,596,211	Patent Issue Date March 7, 2023

I believe said inventor(s) to be the original inventor or original joint inventors of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention titled:

SELF-ADJUSTING SUN SHADE ASSEMBLY

the specification of which

☐ is attached hereto.

☑ was filed on September 12, 2023 as reissue application number 18/367,224.

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below.
(Check all boxes that apply.)

☐ by reason of a defective specification or drawing.

☑ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0033. Public burden for this form is estimated to average 46 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/AIA/06 (09-20)
Approved for use through 03/31/2026. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

REISSUE APPLICATION DECLARATION BY THE ASSIGNEE	Docket Number (Optional)

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, a claim that the application seeks to broaden must be identified and the box below must be checked.

Please see the attached "Continuation Sheet".

[Attach additional sheets, if needed.]

☑ **The application for the original patent was filed under 37 CFR 1.46 by the assignee of the entire interest.**

I hereby appoint:

☑ Practitioners associated with Customer Number: 36829

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Correspondence Address: Direct all communications about the application to:

☑ The address associated with Customer Number: 36829

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

Signature *Paul T. James*	Date (Optional) 13/05/2025
Legal name of person signing	Paul T. James
Address of Assignee	1508 Radian Road, Wilmington, NC 28405

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013), https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf.

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

CONTINUATION SHEET

As required under 37 CFR 1.175, Applicant respectfully submits the following statement of at least one error which is relied upon to support the present reissue application. Claim 1 of Applicant's original patent (U.S. Pat. No. 11,596,211) contains certain unnecessary limitations which render the patent wholly or partially inoperative. Specifically, Claim 1 of the original patent recites the unnecessary limitation "at least one support arm". Original Claim 1 is broadened in the Preliminary Amendment filed on February 5, 2024 by removing this limitation from newly added independent Claims 41, 47, 53, 54.

Amendments to the Specification:

▸ *Please replace the paragraph beginning at column 5, line 61 with the following*:

FIG. 1 illustrates one embodiment of sun shade assembly 5. Particularly, the assembly includes sail 20 that releasably attaches to a pair of ribs 10, providing shade to the user. At least one support arm 15 can be used to reinforce ribs 10. Mast 30 provides height to the assembly and includes anchor 35 located at its bottom end that allows the assembly to be secured into a support surface (e.g., sand). The ribs and support arms rotate about the mast, thereby self-adjusting the direction of sail 20 in response to the wind blowing, as described in more detail below. The assembly further includes tension adjuster 25 (e.g., Figs. 7a and 7b) that can be tightened or loosed to control the rotation of the ribs and support arms in response to wind conditions. The tension adjuster 25 is also shown diagrammatically in Figures 1, 4a, 4c, and 4d, and is discussed further below.

▸ *Please replace the paragraph beginning at column 6, line 27 with the following*:

The ribs can be slightly offset relative to each other (e.g., are not 180 degrees apart). The offset nature allows the ribs to compensate for stretching of the sail. For example, in some embodiments, the angle [16] "A" between ribs 10 can be about 180-300 degrees, as shown in FIG. 2 d . Thus, the angle between ribs 10 can be at least/no more than about 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, or 290 degrees. It should be appreciated that angle 16 is not limited and can be larger or smaller than the range set forth herein. The ribs can be fully folded, such as in a storage position, as shown in FIG. 2e.

▸ *Please replace the paragraph beginning at column 6, line 63 with the following*:

In some embodiments, one face of pivot cap 40 includes bridge 94 comprising opening 93 and slidable arm 95 that can be used to releasably lock the sail into proper position, as shown in FIGS. 3c-3e . Particularly, a portion of the sail can be inserted into opening [94] 93. Arm 95 can then be slid to trap the portion of the sail over the bridge, as shown in FIGS. 3f and 3g . Thus, a portion of the sail is trapped between the bridge and the arm. To release the sail, the arm can be slid to expose opening 93, thereby allowing the sail to be removed. The term "bridge" refers to any device that has a raised portion with an opening configured therein. In some embodiments, the arm can fully surround at least a segment of the raised bridge portion.

▸ *Please replace the paragraph beginning at column 8, line 62 with the following*:

The disclosed assembly further includes tension adjuster 25 that allows a user to adjust the tension on the pivot cap 40 relative to the mast 30 easily and safely. In this way, a user can alter the amount of rotation ribs 10, support arms 15 and slider 45 have about mast 30 in response to wind conditions. The tension adjuster 25 can be generally located within or adjacent to the pivot cap 40. The tension adjuster 25 [is also attached to] engages the mast 30 using any known mechanism (e.g., screws, bolts, clips, etc.).

▸ *Please replace the paragraph beginning at column 9, line 18 with the following*:

Tension adjuster 25 can have any desired configuration that allows a user to control the level of movement of the [tension] pivot cap 40 relative to the mast 30. For example, in some embodiments, the tension adjuster 25 can include passageway 60 with actuator [65] 64 (e.g., lever or screw) capable of contacting pivot cap 40, as shown in FIGS. 7a and 7b. Adjusting the actuator 64 through the passageway 60 will increase or decrease the tension on the pivot cap 40. Specifically, if the actuator 64 is tightened to fully contact the pivot cap 40, the pivot cap 40 will

be incapable of moving relative to the mast 30. Alternatively, if the actuator 64 is loosened such that it does not fully contact or press against the mast 30, the pivot cap 40 is free to rotate. Any degree of actuator tightening can therefore adjust the level of pivot cap rotation.

▸ *Please replace the paragraph beginning at column 9, line 41 with the following*:

Further, actuator [65] 64 can have any known configuration, such as (but not limited to) a lever, wrench, key, screw, handle, knob, bolt, and the like.

▸ *Please replace the paragraph beginning at column 9, line 52 with the following*:

Assembly 5 further includes sail 20 that cooperates with ribs 10. As shown in FIGS. 8a and 8b, the sail can include proximal front edge 61, unrestrained free rear edge 62, and a pair of side edges 63. The sail further includes top face 70 and bottom face 71. In exemplary embodiments, the entire surface area of the sail 20 is unrestrained from its proximal front edge 61 to the free rear edge 62, such that the sail 20 unfurls in response to blowing of the wind when the support arms 15 and ribs 10 are unfolded outward as shown in Figure 4a. The support arms 15 and ribs 10 rotate together with the sail 20 to the direction of the blowing wind.

Amendments to the Drawings:

The attached Replacement Sheets include amendments to the drawings, identified as follows:

In Figure 2d, the angle originally referenced at "16" has been changed to "A".

In Figure 4a, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4c, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 4d, the diagrammatic representation of the *tension adjuster* has been labeled "25".

In Figure 7a, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 7b, the exemplary *tension adjuster* has been broadly labeled "25".

In Figure 8a, the reference numeral "66" has been deleted.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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Corrected Application Data Sheet

18367224 : SELF-ADJUSTING SUN SHADE ASSEMBLY

~~Strike-through~~ indicates removal of data from existing record Underline indicates new data being added to the application If no data is shown, no data has been corrected

Inventor Information

Data of record	Updated Data
No data change in this section	

Application Information

Title of Invention	**SELF-ADJUSTING SUN SHADE ASSEMBLY**
Attorney Docket Number	**1500/2US-RE**
Entity Status	**Micro**

Domestic Benefit/National Stage Information

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, or 365(c), 386(c), or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78(a)(2) or CFR 1.78(a)(4), and need not otherwise be

made part of the specification.

Data of record	Updated Data
Prior application status	PATENTED
Application number	18367224
Continuity type	Reissue of
Prior application number	17417739
Prior application filing date	06/23/2021
Patent number	11596211
Issue date	03/7/2023

Prior application status	**EXPIRED**
Application number	PCT/US20/38920
Continuity type	Claims benefit of provisional
Prior application number	62892700
Prior application filing date	08/28/2019

Prior application status	**EXPIRED**
Application number	17417739
Continuity type	A 371 of international
Prior application number	PCT/US20/38920
Prior application filing date	06/22/2020

Foreign Priority Information

This section allows for the applicant to claim benefit of foreign priority and to identify any prior foreign application for which priority is not claimed. Providing this information in the Application Data Sheet constitutes the claim for priority as required by

35 U.S.C. 119 (b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX) the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Data of record	Updated Data
No data change in this section	

Applicant Information

The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46.

Data of record	Updated Data
No data change in this section	

Assignee Information including Non-Applicant Assignee Information

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Data of record	Updated Data
	Solbello, Inc. 206 Causeway Dr #279 Raleigh, NC 28480 UNITED STATES Phone : --- Email : --- Fax : ---

Organization

Signature

NOTE:

This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b).

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See CFR 1.4(d) for the manner of making signatures and certifications.

Signature	First name	Last name	Registration #	Date
/jeffreyjschwartz/	Jeffrey	Schwartz	37532	05/14/2025

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**05/14/2025 12:24:36 PM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	70421737	AUTHORIZED BY	Jeffrey Schwartz
CUSTOMER #	36829	FILING DATE	09/12/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul T. James

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 6787	**E20255DC25587296**	**Jeffrey Schwartz**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
3454	PETITION FOR THE DELAYED SUBMISSION OF A PRIORITY OR BENEFIT CLAIM, DELAY LESS THAN OR EQUAL TO TWO YEARS	452.00	1	452.00
			TOTAL AMOUNT:	**$452.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C.

371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.	:	18/367,224
CONFIRM NO.	:	9298
APPLICANT	:	Solbello, Inc.
FILED	:	September 12, 2023
ART UNIT	:	3993
EXAMINER	:	Terrence R. Till
DOCKET NO	:	1500/2US-RE
CUSTOMER NO	:	36829

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Madam/Sir:

The Application Data Sheet (ADS) submitted on September 12, 2023 for application Serial No. 18/367,224 claimed priority to application Serial No. 17/417,739 but inadvertently failed to list priority claims to PCT/US20/3890 and application Serial No. 62/892,700. The attached Corrected ADS properly identifies and adds the omitted priority claims. Please issue a Corrected Filing Receipt reflecting these changes. Applicant has separately filed a "*Petition to Accept an Unintentionally Delayed Claim for the Benefit of a Prior-filed Application*."

Respectfully submitted,

/jeffreyjschwartz/

Jeffrey J. Schwartz
Attorney for Applicant
Registration No. 37,532

Jeffrey J. Schwartz
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**05/14/2025 12:24:36 PM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	70421737	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	Jeffrey Schwartz

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
CorrectedADS.pdf	4	Application Data Sheet to update/correct info	76 KB
Request for Corrected Filing Receipt_5.2025.pdf	2	Request for Corrected Filing Receipt	108 KB
Petition_5.2025.pdf	6	Petition for review by the Office of Petitions	296 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
CorrectedADS.pdf	E6656E786C85CCBD6AF73319B4DFA209B89D30B77F5FD930 E23C91DD3F3328D2C9C2022D7291F11331A7AE92BD0EB2FB 9E40AC4BF921ABE613EEF3E24E224A73

Request for Corrected Filing Receipt_5.2025.pdf	ACCA2730EEF64469DF93A891191BEF1810F61D2DD8337DD04628A7204C70E284DF95D5DD4A136CA02498121F87B1A0940DBEE214943F6C90D53DDF56B4E36C02
Petition_5.2025.pdf	D6A57EF303ACEF90F594AE3C93C3190D7CC214BC42DC3EE0D044B1936B77EE7F376D7EE82281071D522CE8AEF988AD66D1FCE6746638F260F6CD1C9419EA37BF

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

Doc Code: PET.OP
Document Description: Petition for Review by the Office of Petitions

PTO/SB/445 (01-25)
Approved for use through 11/30/2027. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 119(e) (37 CFR 1.78(c)) AND/OR TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) FOR THE BENEFIT OF A PRIOR-FILED APPLICATION

First named inventor: Paul T. James

Application No.: 18/367,224 Art Unit: 3993

Filed: September 12, 2023 Examiner: Terrence R. Till

Title: SELF-ADJUSTING SUN SHADE ASSEMBLY

Attention: Office of Petitions
Mail Stop Petition
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450
FAX 571-273-8300

When filing via USPTO patent electronic filing system, use Doc Code PET.PCT (Petition for review by the PCT Legal Office) for applications filed under 35 U.S.C. 371 and/or if the reference to the prior-filed application(s) includes an international application or an international design application. In all other instances, use Doc Code PET.OP (Petition for review by the Office of Petitions).

NOTE: If information or assistance is needed in completing this form, please contact the Office of Petitions at 571-272-3282.

APPLICANT HEREBY PETITIONS FOR ACCEPTANCE OF AN UNINTENTIONALLY DELAYED BENEFIT CLAIM TO A PRIOR-FILED APPLICATION UNDER 37 CFR 1.78(c) AND/OR 37 CFR 1.78(e).

NOTE: For a petition under 37 CFR 1.78(e), the above-identified application must have been filed during the pendency of the prior application or during the pendency of an intermediate application similarly entitled to the benefit of the filing date of the prior application. For a petition under 37 CFR 1.78(c), the above-identified application must have been filed within 12 months of the filing date of the provisional application or be entitled to claim the benefit under 35 U.S.C. 120, 121, or 365(c) of an application that was filed within 12 months of the filing date of the provisional application, except as provided in 37 CFR 1.78(b).

NOTE: A grantable petition requires the following items:

(1) the reference required by 35 U.S.C. 119(e) and 37 CFR 1.78(a)(3) to the prior-filed provisional application and/or the reference required by 35 U.S.C. 120 and 37 CFR 1.78(d)(2) to the prior-filed nonprovisional application, international application designating the United States, or international design application designating the United States, unless previously submitted;
(2) the petition fee set forth in 37 CFR 1.17(m) and the applicable fee (if any) set forth in 37 CFR 1.17(w); and
(3) a statement that the entire delay between the date the benefit claim was due under 37 CFR 1.78(d)(3) and/or 37 CFR 1.78(a)(4) and the date the benefit claim was filed was unintentional. The Director may require additional information where there is a question as to whether the delay was unintentional.

1. The required reference to the prior-filed application:

☒ The above-identified application was filed on or after September 16, 2012, and the reference is either set forth in the attached corrected application data sheet (ADS) or in a corrected ADS that was previously submitted.

☐ The above-identified application was filed prior to September 16, 2012, and the reference is either (1) set forth in a supplemental ADS, (2) set forth in the attached amendment to the first sentence(s) of the specification, or (3) set forth in a supplemental ADS or amendment to the first sentence(s) of the specification that was previously submitted. See 37 CFR 1.78(h).

Reminder: Any ADS which corrects or updates the information of record must comply with 37 CFR 1.76(c)(2) (or for applications filed prior to September 16, 2012, pre-AIA 37 CFR 1.76(c)).

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0032. Public burden for this form is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PETITION TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 119(e) (37 CFR 1.78(c)) AND/OR TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) FOR THE BENEFIT OF A PRIOR-FILED APPLICATION

2. Petition fee:

(A) For delay greater than two years:

37 CFR 1.17(m)(1)

☐ Other than a small or micro entity (undiscounted) fee $ _____ (Fee Code 1469).

☐ Small entity fee $ _____ (Fee Code 2469). Applicant asserts small entity status. See 37 CFR 1.27.

☐ Micro entity fee $ _____(Fee Code 3469). Applicant has established or is establishing micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

(B) For delay less than or equal to two years:

37 CFR 1.17(m)(2)

☐ Other than a small or micro entity (undiscounted) fee $ _____ (Fee Code 1454).

☐ Small entity fee $ _____(Fee Code 2454). Applicant asserts small entity status. See 37 CFR 1.27.

■ Micro entity fee $ 452 (Fee Code 3454). Applicant has established or is establishing micro entity status. See 37 CFR 1.29. Form PTO/SB/15A or B or equivalent must either be enclosed or have been submitted previously.

3. Statement: The entire delay between the date the benefit claim was due under 37 CFR 1.78(d)(3) and/or 37 CFR 1.78(a)(4) and the date the benefit claim was filed was unintentional.

Petitioner is reminded that a change in circumstance or a delay resulting from a deliberately chosen course of action does not become an "unintentional" delay because, for example:

- the applicant does not consider any patent to be of sufficient value to justify the financial expense of obtaining the patent; or
- the applicant remains interested in eventually obtaining a patent, but simply seeks to defer patent fees and patent prosecution expenses.

NOTE: Where the petition under 37 CFR 1.78(c) and/or 37 CFR 1.78(e) is filed more than two years after the date the priority or benefit claim was due, the United States Patent and Trademark Office requires an additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional. This requirement is in addition to the requirement to provide a statement that the entire delay was unintentional. See *Clarification of the Practice for Requiring Additional Information in Petitions Filed in Patent Applications and Patents Based on Unintentional Delay*, 85 FR 12222 (March 2, 2020). See MPEP 711.03(c)(II)(C)-(F) for additional guidance on the information required to establish that the entire delay was unintentional.

☐ Because this petition under 37 CFR 1.78(c) and/or 37 CFR 1.78(e) is being filed more than two years after the date the priority or benefit claim was due, additional explanation of the circumstances surrounding the delay that establishes the entire delay was unintentional is enclosed herewith. Note: If this box is checked, section 2A must also be completed.

Reminder: Presentation of a benefit claim may prompt a requirement to pay the continuing application fee set forth in 37 CFR 1.17(w), if the actual filing date of the application is more than six years after the earliest benefit date. See 37 CFR 1.78(d)(3)(i) and 37 CFR 1.17(w).

PTO/SB/445 (01-25)
Approved for use through 11/30/2027. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 119(e) (37 CFR 1.78(c)) AND/OR TO ACCEPT AN UNINTENTIONALLY DELAYED CLAIM UNDER 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) FOR THE BENEFIT OF A PRIOR-FILED APPLICATION

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

/JeffreySchwartz/ — Signature*

5/8/2025 — Date

Jeffrey Schwartz — Typed or Printed Name

37532 — Registration Number, if applicable

704-552-1889 — Telephone Number

Address

Address

* This petition must be signed in accordance with 37 CFR 1.33. Please see 37 CFR 1.4(d) for the signature requirements. Submit multiple forms if more than one signature is required.

Enclosures:

- [x] Application Data Sheet (see instructions starting on page 4)
- [x] Fee (along with supporting documentation, if required)
- [ ] Other: _____

CERTIFICATE OF MAILING OR TRANSMISSION [37 CFR 1.8(a)]

I hereby certify that this correspondence is being:

- [ ] Deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Mail Stop Petition, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.
- [x] Transmitted by the USPTO patent electronic filing system or by facsimile to 571-273-8300, to the USPTO on the date shown.

5/14/2025 — Date

/JeffreySchwartz/ — Signature

Jeffrey Schwartz — Typed or printed name of person signing certificate

Instructions for Petition to Accept an Unintentionally Delayed Claim under 35 U.S.C. 119(e) (37 CFR 1.78(c)) and/or to Accept an Unintentionally Delayed Claim under 35 U.S.C. 120, 121, 365(c), or 386(c) (37 CFR 1.78(e)) for the Benefit of a Prior-Filed Application

(Not to be Submitted to the USPTO)

When filing electronically via the USPTO patent electronic filing system, use Doc Code PET.PCT (Petition for review by the PCT Legal Office) for applications filed under 35 U.S.C. 371 and/or if the reference to the prior-filed application(s) includes an international application or an international design application. In all other instances, use Doc Code PET.OP (Petition for review by the Office of Petitions).

1. The reference required to the prior-filed application:

a. For applications filed on or after September 16, 2012, the reference must be set forth in a corrected application data sheet (ADS). See 37 CFR 1.76.

Note: Any ADS filed after the filing of the application is considered a corrected (or updated) ADS even if an ADS was not previously submitted. A corrected ADS must identify the information that is being changed with underlining for insertions and strike-through or brackets for text removed. In general, the identification of the information being changed should be made relative to the most recent filing receipt. For example, where the most recent filing receipt for the application shows no benefit claim, the entire benefit claim must be shown with underlining in the corrected ADS. In addition, if the ADS identified an incorrect provisional application number and the most recent filing receipt included the incorrect provisional application number, the corrected ADS should identify the incorrect provisional application number being deleted with strike-through or brackets, and should identify the correct provisional application number being added with underlining. For more information regarding a corrected ADS in an application filed on or after September 16, 2012, see MPEP 601.05(a), subsection II.

A corrected ADS may include all of the section headings listed in 37 CFR 1.76(b) with all appropriate data for each heading or only those sections (including the section headings) containing changed or updated information. See 37 CFR 1.76(c)(2). A corrected ADS must identify the application by application number and be properly signed.

Use of the corrected Web-based ADS is recommended for registered users of the USPTO patent electronic filing system because it will pre-populate with information of record; applicants can then type in the desired changes, and the system will create a PDF version with the appropriate strike-through and underlining. For more information, see the Quick Start Guide for "Application Data Sheet to Update and/or Correct Information" available at https://www.uspto.gov/sites/default/files/documents/Corrected-WebADS-QSG.pdf

Applicants may also use Form PTO/AIA/14, which may be printed and marked up to comply with 37 CFR 1.76(c).

b. For applications filed before September 16, 2012, the reference to the prior-filed application may be made in a supplemental ADS in compliance with pre-AIA 37 CFR 1.76(c) or in an amendment in the first sentence(s) of the specification following the title. See 37 CFR 1.78(h).

Note: For applications filed before September 16, 2012, any ADS submitted after the filing date of the application is a supplemental ADS, regardless of whether an original ADS was submitted with the application papers on filing. Supplemental ADS papers must be labeled Supplemental ADS or Supplemental Application Data Sheet, include each of the seven section headings listed in pre-AIA 37 CFR 1.76(b) with all appropriate data for the section heading, and identify the information that is being changed. See pre-AIA 37 CFR 1.76(c). A supplemental ADS must also identify the application by application number and be properly signed. For more information regarding a supplemental ADS in an application filed before September 16, 2012, see MPEP 601.05(b), subsection II.

2. Petition fee:

The petition fee is set forth in 37 CFR 1.17(m) and must be included with the petition. Petitioner is advised to refer to the current fee schedule at https://www.uspto.gov/learning-and-resources/fees-and-payment/uspto-fee-schedule.

Note: Effective January 19, 2025, presentation of a benefit claim under 35 U.S.C. 120, 121, 365(c), or 386(c) may prompt a requirement to pay the continuing application fee set forth in 37 CFR 1.17(w), if the actual filing date of the application is more than six years after the earliest benefit date. See 37 CFR 1.78(d)(3)(i) and 37 CFR 1.17(w).

3. Statement:

37 CFR 1.78(c) and 37 CFR 1.78(e) require a statement that the entire delay between the date the benefit claim was due and the date the benefit claim was filed was unintentional. The required statement(s) is included in this form.

Note: the Director may require additional information where there is a question whether the delay was unintentional.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/ owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

DocCode - SCORE

Placeholder Sheet for Supplemental Content

Application Number: 18367224 Document Date: 05/14/2025

The presence of this form indicates that the following document type was received in electronic format on the date identified above. This document is stored separately from the typical case contents which are stored in image format.

Since this was an electronic submission, there is no physical artifact folder, no artifact folder is recorded and no paper documents or physical media exist.

- Drawing

At the time of document entry (noted above):

- USPTO employees may access this supplemental content via Docket Application Viewer (DAV) or Supplemental Content Viewer (SCV).
- External customers may access this supplemental content via Patent Center.

Form Revision Date: March 1, 2024

PTO/SB/06 (09-11)
Approved for use through 1/31/2014. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875	Application or Docket Number 18/367,224	Filing Date 09/12/2023	☐ To be Mailed

ENTITY: ☐ LARGE ☐ SMALL ☑ MICRO

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA		RATE ($)	FEE ($)
☐ BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A		N/A	
☐ SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A		N/A	
☐ EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A		N/A	
TOTAL CLAIMS (37 CFR 1.16(i))	minus 20 =	*		x $20 =	
INDEPENDENT CLAIMS (37 CFR 1.16(h))	minus 3 =	*		x $96 =	
☐ APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				
☐ MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))					
* If the difference in column 1 is less than zero, enter "0" in column 2.				TOTAL	

APPLICATION AS AMENDED - PART II

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT	05/14/2025	CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	* 32	Minus	** 37	= 0		x $40 =	0
	Independent (37 CFR 1.16(h))	* 5	Minus	*** 6	= 0		x $120 =	0
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	0

		(Column 1)		(Column 2)	(Column 3)			
AMENDMENT		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE ($)	ADDITIONAL FEE ($)
	Total (37 CFR 1.16(i))	*	Minus	**	=		x $0 =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=		x $0 =	
	☐ Application Size Fee (37 CFR 1.16(s))							
	☐ FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							
							TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.	SLIE
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".	/ADRIENE D. SELLMAN/
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".	
The "Highest Number Previously Paid For" (Total or Independent) is the highest number found in the appropriate box in column 1.	

This collection of information is required by 37 CFR 1.16. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/367,224	09/12/2023	Paul T. James	1500/2US-RE	9298

36829 7590 04/15/2025

SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

EXAMINER	
TILL, TERRENCE R	

ART UNIT	PAPER NUMBER
3993	

NOTIFICATION DATE	DELIVERY MODE
04/15/2025	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

JJS@SCHWARTZ-IPLAW.COM
OAKLYN@SCHWARTZ-IPLAW.COM
uspto@dockettrak.com

Office Action Summary	Application No. 18/367,224	Applicant(s) James, Paul T.	
	Examiner TERRENCE R TILL	Art Unit 3993	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 2/5/2024 and 11/12/2024.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 21-57 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 21-57 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☑ The specification is objected to by the Examiner.

11)☑ The drawing(s) filed on 12 September 2023 is/are: a)☐ accepted or b)☑ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date 9/12/23, 2/5/2024.

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

Non-final Office Action

Reissue

1. For reissue applications filed before September 16, 2012, all references to 35 U.S.C. 251 and 37 CFR 1.172, 1.175, and 3.73 are to the law and rules in effect on September 15, 2012. Where specifically designated, these are "pre-AIA" provisions.

2. *For reissue applications filed on or after September 16, 2012, all references to 35 U.S.C. 251 and 37 CFR 1.172, 1.175, and 3.73* are to the current provisions.

3. This action is responsive to communications: The instant application filed September 12, 2023 which is a reissue of application 17/417,739 (U.S. Patent No. 11,596,211, published March 7, 2023).

4. Because the instant application was filed on or after September 16, 2012, the statutory provisions of the America Invents Act ("AIA") will govern this proceeding.

5. Claims 1-20 were published in US Patent 11,596,211. A preliminary amendment was filed concurrently with the application on September 12, 2023. By way of a second preliminary amendment, filed February 5, 2024, original claims 1-20 were cancelled and new claims 21-57 were added. Therefore, claims 21-57 are currently pending in the application.

Application Data Sheet (ADS)

6. In the Application Data Sheet, filed September 12, 2023, Patent Owner has only claimed priority to non-provisional 17/417,739. Patent Owner has not further claimed priority to PCT/US20/38920, nor provisional application 62/892,700.

7. Should Patent Owner wish to claim the benefit of the earlier filings, Patent Owner will need to submit another, updated ADS and also submit a corrected filing receipt, adding the above information.

8. It is also noted that the box "If the Applicant is an organization, check here" has not been checked, but this box was checked in the underlying non-provisional.

Drawings

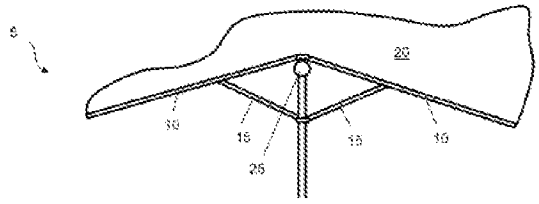
9. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "16" has been used to designate both the angle in figure 2d and the first end of support arm in figure 4a. See also col. 6, ll. 30 and col. 7, ll. 10-15, one of which will need correcting.

10. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Reference character "66" (figure 8a) is not found in the description.

11. The drawings are objected to because in figure 7, Patent Owner describes the tension adjuster (25) associated with the pivot cap (40). See col. 9, ll. 18-31, which state:

> "Tension adjuster **25** can have any desired configuration that allows a user to control the level of movement of the tension cap relative to the mast. For example, in some embodiments, the tension adjuster can include passageway **60** with actuator **65** (e.g., lever or screw) capable of contacting pivot cap **40**, as shown in FIGS. *7a* and *7b*. Adjusting the actuator through the passageway will increase or decrease the tension on the pivot cap. Specifically, if the actuator is tightened to fully contact the pivot cap, the pivot cap will be incapable of moving relative to the mast. Alternatively, if the actuator is loosened such that it does not fully contact or press against the mast, the pivot cap is free to rotate. Any degree of actuator tightening can therefore adjust the level of pivot cap rotation."

12. However, when looking at the total disclosure, the tension adjuster and the pivot cap appear to be separate elements. See figures 1, 3a and 4a below:



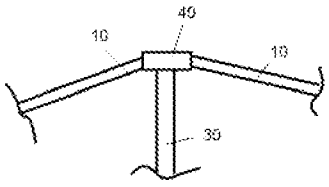


Fig. 3a

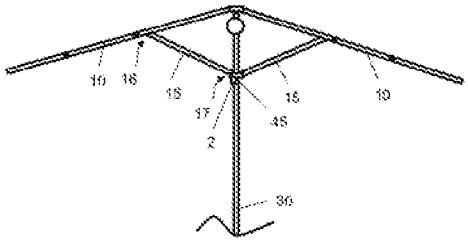


Fig. 4a

13. The description of figure 7 appears to indicate that the tension adjuster (25) is part of the pivot cap (40), even though the other figures of the disclosure indicate that these are separate elements.

14. It is understood from the description of the Brief Description of the Drawings, figures 7 A and 7b are described as:

> "FIGS. 7*a* and 7*b* are cross-sectional views of a tension adjuster in use in accordance with some embodiments of the presently disclosed subject matter."

15. It is recognized that figures 7a and 7b are in accordance with *some embodiments*, but figures 7a and 7b are the only embodiments where the tension adjuster (25) appears to be part of the pivot cap (40). This makes the drawings/disclosure confusing.

Specification

16. The disclosure is objected to because of the following informalities:

- At col. 6, line 67, "opening 94" should be --opening 93--
- At col. 9, ll. 18-20, it is believed "tension cap" should be --pivot cap--.

17. Additionally, as stated above in the drawings objections, the disclosure is confusing with respect to figures 7a and 7b. Passages in the specification, namely col. 8, line 67 to col. 9, line 1 ("The tension adjuster can be generally located adjacent to the pivot cap. The tension adjuster is also attached to mast **30** using any known mechanism (e.g., screws, bolts, clips, etc.)") appear to conflict with col. 9, ll. 18-31, cited above. Appropriate correction is required.

18. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required:

The specification does not provide antecedent basis for the claim limitations:

- "a proximal edge" (claims 41, 47, 53 and 54)
- "an unrestrained free edge" (claims 41, 47, 53 and 54)
- "the unrestrained free edge of said sail unfurls in response to blowing of the wind" (claims 41, 47, 53 and 54)
- The mast having a "bottom end" (claims 47 and 53)
- "wherein an entire surface area of said sail is unrestrained from the proximal edge to the free edge" (claim 47)
- "when unfurled, said sail and rib are adapted to rotate together to a direction of the blowing wind" (claims 47 and 53- "when unfurled"/ "unfurls in response" is not found in the specification)

Claims

19. The present reissue includes original claims 21-57. Independent claims 21, 35, 41, 47, 53 and 54 are reproduced below.

21. (New) A sun shade assembly comprising:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

35. (New) A method of using a sunshade, the method comprising:

positioning the anchor of a sun shade assembly in a support surface, wherein the sun shade assembly comprises:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

41. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface;

a pair of pivoted ribs carried by said mast and configured to rotate relative to the supporting surface, and said pivoted ribs adapted to lift outwardly from said mast at respective pivot points into an unfolded condition and to lower at respective pivot points from the unfolded condition to a folded condition alongside said mast;

a sail having a proximal edge secured to each of said pivoted ribs, and an unrestrained free edge opposite the proximate edge; and

whereby said sail is unfolded by lifting said pivot ribs outwardly from said mast from the folded condition into the unfolded condition such that the

unrestrained free edge of said sail unfurls in response to blowing of the wind, and wherein said sail and ribs rotate together to a direction of the blowing wind.

47. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

at least one rib located proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge secured to said rib and an unrestrained free edge adapted to unfurl in response to blowing of the wind, and wherein an entire surface area of said sail is unrestrained from the proximal edge to the free edge; and

when unfurled, said sail and rib are adapted to rotate together to a direction of the blowing wind.

53. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

a pair of pivoted ribs pivotably attached proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge defining a channel sized and shaped to receive each of said pivoted ribs, and an unrestrained free edge adapted to unfurl in response to blowing of the wind;

a slider configured to move up and down said mast, and operatively actuating said pivoted ribs such:

(i) that raising said slider on said mast causes said pivoted ribs to open outwardly from a folded condition into an unfolded condition thereby unfolding said sail, such that when unfolded said sail unfurls in response to blowing of the wind and rotates together with said pivoted ribs to a direction of the blowing wind; and

(ii) lowering said slider on said mast causes said pivoted ribs to fold downwardly into the folded condition adjacent said mast, such that said sail is folded for storage.

54. (New) A method of using a sunshade assembly, the method comprising:

extending a mast of the sunshade assembly upwardly from a supporting surface, the sunshade assembly further comprising a pair of pivoted ribs carried by the mast and configured to rotate relative to the supporting surface, and a sail having a proximal edge secured to each of the pivoted ribs and an unrestrained free edge opposite the proximate edge;

lifting the pivoted ribs outwardly from the mast at respective pivot points from a folded condition alongside the mast into an unfolded condition, such that in the unfolded condition the unrestrained free edge of the sail unfurls in response to blowing of the wind; and

when the sail is unfurled, enabling the sail and pivoted ribs to rotate together to a direction of the blowing wind.

Claim Objections

20. Claims 21-57 are objected to because of the following informalities: Per 37 CFR 1.173(d), all claims added to the patent (new claims) need to be underlined. Appropriate correction is required.

Future Amendments

21. Patent Owner is encouraged to review MPEP 1453 and make any future changes in accordance with 37 C.F.R. 1.173(b)-(d):

> (b) *Making amendments in a reissue application.* An amendment in a reissue application is made either by physically incorporating the changes into the specification when the application is filed, or by a separate amendment paper. If amendment is made by incorporation, markings pursuant to paragraph (d) of this section must be used. If amendment is made by an amendment paper, the paper must direct that specified changes be made, as follows:
>
> > (1) *Specification other than the claims.* Changes to the specification, other than to the claims, must be made by submission of the entire text of an added or rewritten paragraph**,** including markings pursuant to paragraph (d) of this section, except that an entire paragraph may be deleted by a statement deleting the paragraph without presentation of the text of the paragraph. The precise point in the specification must be identified where any added or rewritten paragraph is located. This paragraph applies whether the amendment is submitted on paper or compact disc (see §§ 1.52(e)(1) and 1.821(c), but not for discs submitted under § 1.821(e)).
> >
> > (2) *Claims.* An amendment paper must include the entire text of each claim being changed by such amendment paper and of each claim being added by such amendment paper. For any claim changed by the amendment paper, a parenthetical expression "amended," "twice amended," *etc.,* should follow the claim number. **Each changed patent claim and each added claim must include markings pursuant to paragraph (d) of this section**, except that a patent

claim or added claim should be canceled by a statement canceling the claim without presentation of the text of the claim.

(3) *Drawings.* One or more patent drawings shall be amended in the following manner: Any changes to a patent drawing must be submitted as a replacement sheet of drawings which shall be an attachment to the amendment document. Any replacement sheet of drawings must be in compliance with § **1.84** and shall include all of the figures appearing on the original version of the sheet, even if only one figure is amended. Amended figures must be identified as "Amended," and any added figure must be identified as "New." In the event that a figure is canceled, the figure must be surrounded by brackets and identified as "Canceled." All changes to the drawing(s) shall be explained, in detail, beginning on a separate sheet accompanying the papers including the amendment to the drawings.

(i) A marked-up copy of any amended drawing figure, including annotations indicating the changes made, may be included. The marked-up copy must be clearly labeled as "Annotated Marked-up Drawings" and must be presented in the amendment or remarks section that explains the change to the drawings.

(ii) A marked-up copy of any amended drawing figure, including annotations indicating the changes made, must be provided when required by the examiner.

(c) *Status of claims and support for claim changes.* Whenever there is an amendment to the claims pursuant to paragraph (b) of this section, there must also be supplied, on pages separate from the pages containing the changes, the status (*i.e.*, pending or canceled), as of the date of the amendment, of all patent claims and of all added claims, and an explanation of the support in the disclosure of the patent for the changes made to the claims.

(d) *Changes shown by markings.* Any changes relative to the patent being reissued which are made to the specification, including the claims, upon filing, or by an amendment paper in the reissue application, must include the following markings:

(1)The matter to be omitted by reissue must be enclosed in brackets; and

(2)The matter to be added by reissue must be underlined, except for amendments submitted on compact discs (§§ **1.96 and 1.821(c)).** Matter added by reissue on

> compact discs must be preceded with "U" and end with "/U" to properly identify the material being added."

Emphasis added.

22. Also, Patent Owner is required, per 37 CFR 1.173(c) to explain where in the original disclosure the support in the disclosure of the patent for the changes made to the claims. A general statement of patentability, such as provided in the amendment of February 5, 2024, is unacceptable.

Oath/Declaration

From MPEP 1414:

> "The 'at least one error' which is relied upon to support the reissue application must be set forth in the oath/declaration. It is not necessary, however, to point out how (or when) the error arose or occurred. Further, it is not necessary to point out how (or when) the error was discovered. If an applicant chooses to point out these matters, the statements directed to these matters will not be reviewed by the examiner, and the applicant should be so informed in the next Office action. What is needed for the oath/declaration statement as to error is the identification of 'at least one error' relied upon. **For an application filed on or after September 16, 2012 that seeks to enlarge the scope of the claims of the patent, *the reissue oath or declaration must also identify a claim that the application seeks to broaden***. A general statement, e.g., that all claims are broadened, is not sufficient to satisfy this requirement. **In identifying the error, it is sufficient that *the reissue oath/declaration identify a single word, phrase, or expression* in the specification or *in an original claim*, and how it renders the original patent wholly or partly inoperative or invalid**. The corresponding corrective action which has been taken to correct the original patent need not be identified in the oath/declaration. If the initial reissue oath/declaration 'states at least one error' in the original patent, and, *in addition*, recites the specific corrective action taken in the reissue application, the oath/declaration would be considered acceptable, even though the corrective action statement is not required...
> Likewise, a statement of the error as '...the inclusion of claims 3-5 which were unduly broad...' and then canceling claims 3-5, would not be considered a sufficient "error" statement because applicant has not pointed out what the canceled claims lacked that the remaining claims contain. The statement of what the remaining claims contain need not identify specific limitations, but rather may provide a general identification, such as 'Claims

> 3-5 did not provide for any of the tracking mechanisms of claims 6-12, nor did they provide an attachment mechanism such as those in claims 1-2 and 9-16.'" (Emphases examiner).

23. The reissue oath/declaration filed with this application is defective (see 37 CFR 1.175 and MPEP § 1414) because of the following:

24. On September 12, 2023, the declaration filed with the application made the following error statement:

> "The patentee claimed less than they were entitled to claim and thus files this application for a broadening reissue. The patentee believes they are entitled to claim the invention without reciting, for example, support arms."

25. On December 14, 2023, a subsequent declaration filed made the same error statement:

> "The patentee claimed less than they were entitled to claim and thus files this application for a broadening reissue. The patentee believes they are entitled to claim the invention without reciting, for example, support arms."

26. On November 12, 2024, Patent Owner filed a "Supplemental Reissue Declaration" in which all the declaration contained was a revised error statement:

> "Claim 1 of Applicant's original patent (U.S. Pat. No. 11,596,211) contains certain unnecessary limitations which render the patent wholly or partially inoperative. Specifically, Claim 1 of the original patent recites the unnecessary limitation 'at least one support arm.' Original Claim 1 is broadened in the Preliminary Amendment filed on February 5, 2024 by removing this limitation from newly added independent Claims 41, 47, 53 and 54."

27. The first two declarations, filed September 12, 2023 and December 14, 2023 were non-compliant, as the error statement in the reissue oaths/declarations did not identify

a single word, phrase, or expression in the specification or in an original claim, and how it renders the original patent wholly or partly inoperative or invalid. For this reason, neither declarations were acceptable.

28. From MPEP 141.03(I):

> "**1414.03 Supplemental Reissue Oath/Declaration**
>
> I. REISSUE APPLICATION FILED ON OR AFTER SEPTEMBER 16, 2012 Pursuant to 37 CFR 1.67(a), the applicant may submit an inventor's oath or declaration meeting the requirements of 37 CFR 1.63, 1.64, or 1.162 to correct any deficiencies or inaccuracies present in an earlier-filed inventor's oath or declaration.
>
> For applications filed on or after September 16, 2012, if additional defects or errors are corrected in the reissue after the filing of the reissue oath or declaration, a supplemental reissue oath or declaration is **not** required. However, where all errors previously identified in the reissue oath/declaration are no longer being relied upon as the basis for reissue, the applicant must explicitly identify on the record an error being relied upon as the basis for reissue (e.g., in the remarks accompanying an amendment). See **37 CFR 1.175(d)**. Identification of the error must be conspicuous and clear, and must comply with **35 U.S.C. 251**."

29. The submission of the "Supplemental Reissue Declaration" of November 12, 2024 was not a declaration, but just a statement of the error upon which reissue is sought. There still exists the requirement to provide a declaration, such as those filed September 12, 2023 and December 14, 2023 with a proper error statement, such as that filed November 12, 2024.

30. Lastly, When filing a new declaration, in response to the above defects, Patent Owner is reminded to check the box that the specification was "filed on _____ as reissue application number _____", as the specification has been filed.

Claim Rejections - 35 USC § 251

31. Claims 21-57 are rejected as being based upon a defective reissue declaration under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

32. The nature of the defect(s) in the declaration(s) is set forth in the discussion above in this Office action.

33. The following is a quote from MPEP 1405(A):

> "**35 U.S.C. 251** prescribes the effect of reissue on the patent term by stating that "the Director shall... reissue the patent... for the unexpired term of the original patent."
>
> The maximum term of the original patent is fixed at the time the patent is granted, subject to any adjustments to the number of days of extension or adjustment. See **MPEP § 2720** and **§ 2734**. While the term may be subsequently shortened, e.g., through the filing of a terminal disclaimer, it cannot be extended through the filing of a reissue. Accordingly, a deletion in a reissue application of an earlier-obtained benefit claim under **35 U.S.C. 120** will not operate to lengthen the term of the patent to be reissued.
>
> When a reissue application has been filed in an attempt to delete an earlier-obtained benefit claim under **35 U.S.C. 120**, it should be treated as follows:
>
> > (A) More than one "error" (as defined by 35 U.S.C. 251) is described in a reissue declaration, and one of the errors identified is the failure to delete a 35 U.S.C. 120 benefit claim in the original patent, or the erroneous making of a claim for 35 U.S.C. 120 benefit.
> >
> > If one of the errors identified is the presence of the claim for 35 U.S.C. 120 benefit in the patent, and patentee (1) states a belief that this error renders the original patent wholly or partly inoperative or invalid, and (2) is seeking to eliminate this error via the reissue proceeding, the Office will permit deletion of the benefit claim in the continuity data and will not object to or reject the reissue declaration on these grounds. For applications filed on or after September 16, 2012, applicant may do so by including an application data sheet that does not list the benefit claim with the filing of the reissue application or by filing a corrected application data sheet in compliance with 37 CFR 1.76(c) that deletes the reference to the prior-filed application in a pending reissue application. For applications filed prior to September 16, 2012, applicant may do so by amending the specification (if the benefit claim is in the specification) or by submitting a supplemental application data sheet in compliance with pre-AIA 37 CFR

> 1.76(c) (no supplemental declaration is necessary) to delete any references to prior applications. See MPEP § 601.05(b), subsection II, for more information on supplemental application data sheets. If the benefit claim is in the specification, the specification should be amended to reflect the correction even if a supplemental or corrected application data sheet is filed. Assuming the reissue declaration appropriately identifies or describes at least one other error being corrected, the reissue declaration would not be objected to for failure to comply with the requirements of 37 CFR 1.175.
>
> Where the reissue declaration states that the patentee is making this correction in order to extend the term of the original patent, the examiner's Office action will merely refer to the statement in the declaration and then point out with respect to such statement that 35 U.S.C. 251 only permits reissue "... for the unexpired part of the term of the original patent."

34. Although Patent Owner did not state that the priority claim to the PCT application and the provisional application were part of the error, the fact remains that they are not part of the ADS, and thus, not claimed as part of the reissue priority. Patent Owner is not permitted to delete any priority claim that was made in the non-provisional application, filed after September 16, 2012, to intentionally or unintentionally lengthen the term of the patent. Further, the error(s) in the declarations submitted are not considered an "appropriate error", as they did not a identify a single word, phrase, or expression in an original claim, and how it renders the original patent wholly or partly inoperative or invalid.

35. Claims 21-57 are rejected as being based upon a defective reissue declaration under 35 U.S.C. 251 as set forth above. See 37 CFR 1.175.

36. See the explanation above with respect to the omission of the priority claim.

Claim Rejections - 35 USC § 112

37. The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:
The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

38. Claims 35-40 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention.

39. With respect to claim 35, Patent Owner recites the method step of "positioning the anchor of a sun shade assembly in a support surface", but "the anchor" lacks antecedent basis. Further, later in the claim, Patent Owner recites "and an anchor operably connected to the second end of the mast." It seems as if the method step should follow the recitation of "an anchor".

40. Claims 36-40 depend on claim 35 and rejected for that reason.

41. The following is a quotation of 35 U.S.C. 112(d):

(d) REFERENCE IN DEPENDENT FORMS.—Subject to subsection (e), a claim in dependent form shall contain a reference to a claim previously set forth and then specify a further limitation of the subject matter claimed. A claim in dependent form shall be construed to incorporate by reference all the limitations of the claim to which it refers.

The following is a quotation of pre-AIA 35 U.S.C. 112, fourth paragraph:

Subject to the following paragraph [i.e., the fifth paragraph of pre-AIA 35 U.S.C. 112], a claim in dependent form shall contain a reference to a claim previously set forth and then specify a further limitation of the subject matter claimed. A claim in dependent form shall be construed to incorporate by reference all the limitations of the claim to which it refers.

42. Claims 22 and 49 are rejected under 35 U.S.C. 112(d) or pre-AIA 35 U.S.C. 112, 4th paragraph, as being of improper dependent form

for failing to further limit the subject matter of the claim upon which it depends, or for failing to include all the limitations of the claim upon which it depends.

43. With respect to claim 22, which recites:

"wherein the pivot cap rotates about the mast at an angle of about 0-360 degrees"

44. How does this dependent claim further limit independent claim 21, which recites, in pertinent part:

"wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind."

45. If claim 21 broadly covers rotation of any kind, and claim 22 covers rotation from 0-360 degrees, doesn't claim 21 already encompass 0-360 degrees? How is this further limiting?

46. The same discrepancy applies to claim 49, which depends on claim 48, which in turn, depends on independent claim 47.

47. Claim 49 states:

"wherein said cap is adapted to rotate about said mast, such that said sail and rib rotate together at an angle from about 0 to 360 degrees in response to blowing of the wind."

Claim 47 states, in pertinent part:

"said sail and rib are adapted to rotate together to a direction of the blowing wind."

48. If claim 47 broadly covers rotation of any kind, and claim 49 covers rotation from 0-360 degrees, doesn't claim 47 already encompass 0-360 degrees? How is this further limiting?

Claim Rejections - 35 USC § 102

42. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (a)(1) the claimed invention was patented, described in a printed publication, or in public use, on sale, or otherwise available to the public before the effective filing date of the claimed invention.

43. Claim(s) 41-43, 45, 46, 54, 55 and 57 are is/are rejected under 35 U.S.C. 102(a)(1) as being anticipated by US 2008/0196754 to Saiz (Saiz)

44. With respect to claim 41, Saiz teaches a sun shade assembly (fig. 1) comprising:

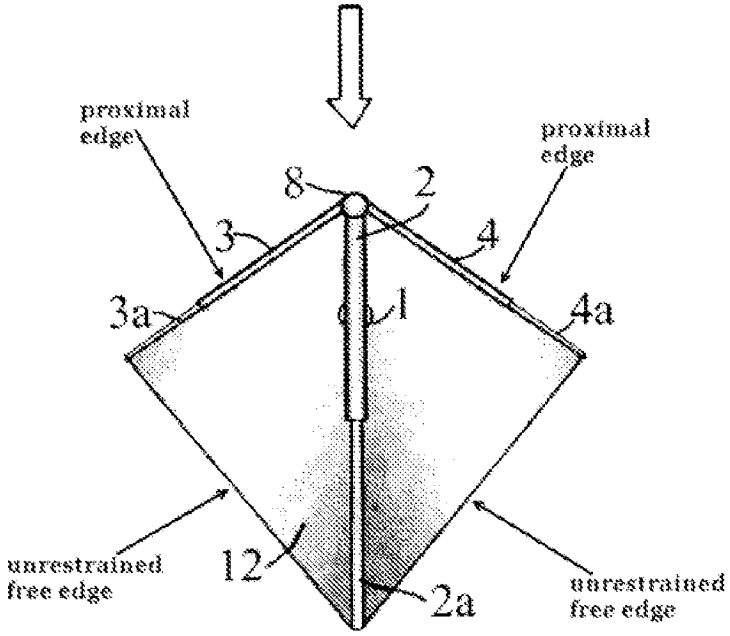
a mast 1,1a configured to extend upwardly from a supporting surface (sand, see para. [0013]);

a pair of pivoted ribs 3,3a; 4,4a carried by said mast and configured to rotate relative to the supporting surface, and said pivoted ribs adapted to lift outwardly from said mast at respective pivot points into an unfolded condition and to lower at respective pivot points from the unfolded condition to a folded condition alongside said mast (See para. [0005]: "The radial or angular rods or arms may be extending or telescopic; they may be extended to form an obtuse angle or a complete circle in the form of a fan, the outermost radial arms of which are connected to one another laterally, either entirely or partly, in a dovetail joint, both when they are extended and when they are retracted. *They may also be rotated and retracted along the support stem.*");

a sail 12 having a proximal edge secured to each of said pivoted ribs (See figure 1), and an unrestrained free edge opposite the proximate edge (See annotated figure 1 below); and

whereby said sail is unfolded by lifting said pivot ribs outwardly from said mast from the folded condition into the unfolded condition such that the unrestrained free edge of said sail unfurls in response to blowing of the wind, and wherein said sail and ribs rotate together to a direction of the blowing wind (See para. [0008]).

45. It should be noted that, once the ribs 3,3a; 4,4a are pivoted from a storage position along the support stem, the sail 12 will unfurl in response to the blowing of the wind.



46. With respect to claim 42, Saiz teaches a cap 8 located at a top end of said mast, and wherein the first ends of said pivoted ribs are pivotably attached to said cap (See figure 1).

49. With respect to claim 43, Saiz teaches wherein said cap is adapted to rotate about said mast, such that said sail and pivoted ribs when unfolded rotate together at an angle from about 0 to 360 degrees in response to blowing of the wind.

50. With respect to claim 45, Saiz teaches an anchor located at a bottom end of said mast (See figure 3, the anchor is in dashed lines).

51. With respect to claim 46, Saiz teaches at least one handle 10 for gripping said mast.

52. With respect to claim 54, Saiz teaches a method of using a sunshade assembly, the method comprising:

extending a mast 1,1a of the sunshade assembly upwardly from a supporting surface (See figure 3 and para. [0034]), the sunshade assembly further comprising a pair of pivoted ribs 3,3a; 4,4a carried by the mast and configured to rotate relative to the supporting surface (See para. [0008]), and a sail 12 having a proximal edge secured to each of the pivoted ribs (see figure 1) and an unrestrained free edge opposite the proximate edge (see annotated figure 1 above);

lifting the pivoted ribs outwardly from the mast at respective pivot points from a folded condition alongside the mast into an unfolded condition, such that in the unfolded condition the unrestrained free edge of the sail unfurls in response to blowing of the wind (See para. [0005]: "The radial or angular rods or arms may be extending or telescopic; they may be extended to form an obtuse angle or a complete circle in the form of a fan, the outermost radial arms of which are connected to one another laterally, either entirely or partly, in a dovetail joint, both when they are extended and when they are retracted. *They may also be rotated and retracted along the support stem.*"); and

when the sail is unfurled, enabling the sail and pivoted ribs to rotate together to a direction of the blowing wind (See para. [0008]). It should be noted

that, once the ribs 3,3a; 4,4a are pivoted from a storage position along the support stem, the sail 12 will unfurl in response to the blowing of the wind.

53. With respect to claim 55, Saiz teaches the method comprising adjustably controlling rotation of the sail and pivoted ribs in response to blowing of the wind (See para. [0008]: "If so wished, rotation can be eliminated by means of exerting pressure on the inner section with a screw anchored to the outer section or else with a brake.").

54. With respect to claim 57, Saiz teaches the method of comprising lowering the pivoted ribs from the unfolded condition to the folded condition alongside the mast, thereby folding the sail for storage (See para. [0005] quote above).

Conclusion

55. Applicant is reminded of the continuing obligation under 37 CFR 1.178(b), to timely apprise the Office of any prior or concurrent proceeding in which Patent No. 11,596,211 is or was involved. These proceedings would include interferences, reissues, reexaminations, and litigation.

56. Applicant is further reminded of the continuing obligation under 37 CFR 1.56, to timely appraise the Office of any information which is material to patentability of the claims under consideration in this reissue application.

57. These obligations rest with each individual associated with the filing and prosecution of this application for reissue. See also MPEP §§ 1404, 1442.01 and 1442.04.

58. Applicant is notified that any subsequent amendment to the specification and/or claims must comply with 37 CFR 1.173(b).

59. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

60. The US patent to Greer teaches a rotatable canopy. French publication to Mariat also teaches a rotatable canopy similar to that of Patent Owner's. WO 02/11578 to Taylor teaches features similar to that of Patent Owner's device.

Telephone Numbers for reexamination inquiries:

Central Reexam Unit (CRU)	(571) 272-7705
Reexamination Facsimile Transmission No.	(571) 273-9900

Future Correspondence

61. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TERRENCE R TILL whose telephone number is (571)272-1280. The examiner can normally be reached on Monday through Thursday and every other Friday 6:45-4:15 EST.

62. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patricia Engle can be reached on 571-272-6660. The fax phone number for the organization where this application or proceeding is assigned is 571-273-9900.

63. Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: https://patentcenter.uspto.gov

64. Visit https://www.uspto.gov/patents/apply/patent-center for more information about Patent Center and https://www.uspto.gov/patents/docx for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.Any inquiry concerning this communication or earlier communications from the Reexamination Legal Advisor or Examiner, or as to the status of this proceeding, should be directed to the Central Reexamination Unit at telephone number (571) 272-7705.

All correspondence relating to this reissue proceeding should be directed as follows:

By Patent Center:
https://patentcenter.uspto.gov

By U.S. Postal Service Mail to:

Mail Stop Ex Parte Reexam
ATTN: Central Reexamination Unit
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By FAX to: (571) 273-9900
Central Reexamination Unit

By hand to: Customer Service Window
Knox Building
501 Dulany St.
Alexandria, VA 22314

/TERRENCE R TILL/
Reexamination Specialist, Art Unit 3993

Conferees:

/WILLIAM E DONDERO/ and William E. Dondero Reexam Specialist AU 3993	/Patricia L Engle/ Patricia L. Engle Supervisory Reexam Specialist AU 3993

Notice of References Cited	Application/Control No. 18/367,224	Applicant(s)/Patent Under Reexamination James, Paul T.	
	Examiner TERRENCE R TILL	Art Unit 3993	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Name	CPC Classification	US Classification
*	A	US-10099751-B1	2018-10-16	Greer; Lawrence A	H02S30/20	1/1
	B					
	C					
	D					
	E					
	F					
	G					
	H					
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	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date YYYY-MM-DD	Country	Name	CPC Classification
	N	FR-2717849-A1	1995-09-29	FR	MARIAT J	A45B23/00
	O	WO-0211578-A2	2002-02-14	WO	TAYLOR C G P	A45B11/00
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title, Date, Publisher, Edition or Volume, Pertinent Pages
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in YYYY-MM-DD format are publication dates. Classifications may be US or foreign.

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	Art Unit
	TERRENCE R TILL	3993

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS

☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47

CLAIM		DATE								
Final	Original	04/08/2025								
	1	-								
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	42	✓								

Index of Claims	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	**Art Unit**
	TERRENCE R TILL	3993

CLAIM		DATE								
Final	Original	04/08/2025								
	43	✓								
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	45	✓								
	46	✓								
	47	✓								
	48	✓								
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	52	✓								
	53	✓								
	54	✓								
	55	✓								
	56	✓								
	57	✓								

Search Notes	Application/Control No.	Applicant(s)/Patent Under Reexamination
	18/367,224	James, Paul T.
	Examiner	Art Unit
	TERRENCE R TILL	3993

CPC - Searched*		
Symbol	Date	Examiner
A45B2023/0012, A45B23/00, A45B25/02, A45B25/06, A45B25/10, A45B25/18, A45B2023/0093, A45B2025/105, E04H15/28, E04H15/58, E04H15/44, E04H15/46, E04H15/48	04/08/2025	TILL

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Reviewed prosecution history	04/08/2025	TILL
Did P-TACTS search- None found.	04/08/2025	TILL

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/TERRENCE R TILL/ Reexamination Specialist, Art Unit 3993	

PTO/SB/08a (07-09)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	18367224
Filing Date	09-12-2023
First Named Inventor	Paul T. James
Art Unit	
Examiner Name	
Attorney Docket Number	1500/2US-RE

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 20080196754	08-21-2008	Saiz	
		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]-Number[4]-Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature	/TERRENCE R TILL/	Date Considered	04/08/2025

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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(19) RÉPUBLIQUE FRANÇAISE

INSTITUT NATIONAL
DE LA PROPRIÉTÉ INDUSTRIELLE

PARIS

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(12) DEMANDE DE BREVET D'INVENTION A1

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(30) **Priorité** :

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(56) **Liste des documents cités dans le rapport de recherche préliminaire :** *Se reporter à la fin du présent fascicule.*

(60) **Références à d'autres documents nationaux apparentés :**

(71) **Demandeur(s) :** *MARIAT Jacques* — FR et *PEIRETTI Jean François* — FR.

(72) **Inventeur(s) :** MARIAT Jacques et PEIRETTI Jean François.

(73) **Titulaire(s) :**

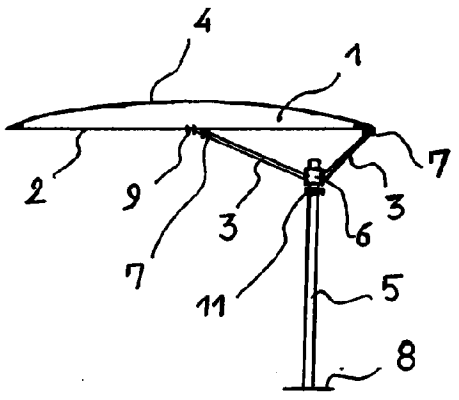
(74) **Mandataire :**

(54) Parasol à pied décentré et corolle pivotante.

(57) L'invention concerne un dispositif permettant de suivre les mouvements du soleil et de s'en protéger au maximum.

Il est composé d'un pied (5) fixé au sol par une console (8) et comportant un moyeu (6) à son sommet. Ce moyeu soutient des bras inégaux (3) qui eux-mêmes supportent le cerclage (2) de la toile (1). Une barre de cintrage (4) lui donne son bombement. Le moyeu (6) prend appui sur un collier (11) solidaire du pied. Des chamières (9) permettent de replier la corolle en deux parties. Des chappes (7) assurent la fixation des bras sur le cercle (2) et le moyeu (6).

Il est susceptible d'intéresser les particuliers comme abri de jardin et aussi les professionnels tels que cafetiers, restaurateurs, hôteliers.



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La présente invention concerne un nouveau modele de parasol. Les parasols traditionnels sont appréciés pour l'ombre qu'ils procurent mais présentent certains inconvénients:

-Un pied central qui peut constituer une gêne pour l'usager.

-L'impossibilité,bien qu'inclinables,d'offrir une protection efficace lors de toutes les positions du soleil.

-Une prise au vent due au caractere imperméable de la toile.Ceci crée un effet de voilure qui peut provoquer l'envol su parasol.

La présente invention pallie à ces inconvénients.

Elle est constituée d'un tube métallique fixé au sol que l'on appelera le pied et d'une partie entoilée que l'on appelera la corolle.

Ses caractéristiques en sont:

- un décalage du pied par rapport au centre de la corolle,ce qui permet de profiter du maximum de place.

- Un moyeu qui permet à la corolle de pivoter autour du pied et de suivre ainsi les mouvements du soleil.

- Un entoilage en toile-écran qui filtre tres bien les rayons du soleil mais laisse passer l'eau et l'air ce qui permet d'annihiler l'effet de voilure.

- L'adjonction d'un rideau coulissant sur 1/3 du périmetre servira le cas échéant,à bloquer les rayons rasants du soleil.

Les dessins joints en annexe illustrent l'invention.

La figure 1 représente le parasol vu en pied.

La figure 2 représente le parasol vu de dessus.

La figure 3 représente,à une plus grande échelle,le moyeu et les chappes de départ de bras.

La figure 4 représente la coupe transversale du moyeu.

La figure 5 représente la jonction des deux tubes semi-circulaires et la chappe d'arrivée de bras.

La figure 6 représente la charniere en perspective.

La figure 7 représente le tube de maintien de la barre de cintrage

La figure 8 représente la fixation du pied au sol.

La figure 9 représente une chappe de bras,vue de dessus avec départ du bras; Et arrivée du bras au cercle.

La figure 10 représente une chappe seule en perspective.

La figure 11représente le rideau coulissant ouvert.

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Comme tous les autres ce parasol se divise en deux parties: un pied et une corolle entoilée. Son originalité consiste en ce que le pied est décentré par rapport à la corolle tout en restant à l'intérieur du cercle formé par celle-ci. Autre caractéristique la corolle peut pivoter de 360° autour du pied.

Le pied(5) est un tube vertical fixé au sol par une console(8) A vingt centimetres du sommet un collier (11) y est soudé et sert de support à un moyeu (6). Grace à la différence de diametre le moyeu peut tourner librement autour du pied. Ce pivotement est facilité par une bague plastique (12) glissée entre les deux.Trois chappes(7) sont soudées au moyeu. Chacune d'elle reçoit un embout (13) de bras(3) qui y est vissé. Deux de ces bras (3) sont de longueur égale,le troisieme est plus court ce qui donne le décentrage. Ils rejoignent en oblique un tube circulaire (2) qui délimite le périmetre de l'entoilage. Ils y sont fixés par dès chappes d'arrivée (7) exactement semblables à celles de départ. Le cercle (2) est formé par deux demi-cercles réunis à leurs extrémités par une charniere(9). Sur deux autres points diamétralement opposés sont soudés deux tubes (10) destinés à recevoir la barre de cintrage(4) qui donnera à la toile son bombement.

L'entoilage (1) est constitué d'un rond de toile-écran du même diametre que le cercle (2). Sur tout son périmetre un ourlet cousu,de 10 centimetres à plat, fait office de gaine. Malgré les reliefs que constituent les charnieres (9) les chappes (7) et les tubes (10) il est aisé d'y glisser les demi-cercles et de les réunir ensuite par les charnieres afin d'obtenir le cercle (2). Nous verrons plus loin l'utilité des charnires.

Quelques précisions:

L'aspect bombé est obtenu grace à l'élasticité de la toile-écran. Une toile traditionnelle type Dralon demanderait des découpes et un assemblage en arrondi.

Toutes les parties métalliques de la corolle sont en alu (gain de poids) et démontables.

La figure 5 représente une vue de l'ensemble support (11) moyeu (6) chappes (7). Elle permet de mieux comprendre comment sont tenus les bras(3) ainsi que l'utilité de la bague plastique (12). On y voit aussi le boulon (15) qui traverse le pied de part en part et empeche la sortie du moyeu.

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La figure 4 représente la coupe transversale du même moyeu(6). Cette coupe a pour but de faire apparaitre la vis à ailettes (16) qui permet de bloquer la corolle dans la position voulue.La bague en plastique (12) qui est solidaire du moyeu (6) et en tapisse tout l'intérieur est percée d'un trou à la sortie de la vis (16)

La figure 5 représente la jonction des deux demi-cercles (22 et 23) grace à la charniere (9). C'est cette jonction qui donnera le cercle (2). Cette séparation en deux demi-cercles est nécessaire pour pouvoir les glisser l'un apres l'autre dans la gaine de la toile (1).

La figure (6) représente la charniere (9) en détail. On y voit que cette charniere peut etre séparée en deux éléments (26 et 27) qui tiennent aux extrémités des demi-cercles (22 et 23) grace à la soudure (21). Le blocage se fait grace à la vis (18) tandis que la vis (17) permet l'articulation. Cette possibilité d'articulation est importante. Comme il est mentionné plus haut l'entoilage (1) de la corolle laisse passer le vent. C'est pourquoi ce parasol ne se referme pas comme un parasol ordinaire ou un parapluie de forain et qu'on peut le laisser ouvert durant toute la bonne saison. Néanmoins l'usager peut envisager de le démonter et de le rentrer à l'approche de l'hiver. Comme tous les éléments sont boulonnés ou clavetés entre eux le démontage ne pose aucun probleme. Un bricoleur moyen l'effectue en dix minutes.Si le pied (5) sa console(8) le moyeu (6) les bras (3) et la barre de cintrage(4) se casent tres facilement sur une étagere il n'en va pas de même pour l'entoilage. Le plus grand diametre prévu pour la corolle est de 2,90 m Un rond de toile bordé de métal,donc rigide,de cette dimension ne trouve pas facilement sa place. L'usager a deux solutions:

-Il peut démonter les charnieres (9) grace aux boulons (17 et 18) et faire glisser les demi-cercles (22 et 23) hors de la gaine. Ceci fait il roulera la toile. C'est fastidieux.

-Il peut simplement oter le boulon (18) et refermer la corolle comme un livre,toile en place. Il obtient alors un demi-cercle long de 2,90 m,haut de 1,45 m et épais de moins de 10 cm qu'il peut caler contre un mur de garage. C'est plus simple et plus rapide.

L'usager peu bricoleur peut laisser le parasol en place et refermer tout simplement la corolle. La toile-écran résiste à toutes les intempéries y compris la neige.

La figure 7 représente une coupe transversale du cercle (2) montrant le tube de soutien (10) de la barre de cintrage (4) ainsi que la goupille de sécurité (19).

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La figure 8 représente la fixation du parasol au sol. Il est évident que le décentrage du pied pose un probleme de stabilité. Il faut assurer la sécurité par une fixation efficace.La console (8) solidaire du pied (5) grace à la soudure (21) est percée de trois trous de diametre 11 mm. Chacun de ces trous reçoit un gougeon de fixation (20) qui est serré par un écrou. Sur un sol bétonné cela ne pose aucun probleme. En cas de terrain meuble il conviendra d'enterrer un cube de béton sous la console.

La figure 9 représente un bras (3) et ses embouts plats (13) vus de dessus. L'embout (13a) qui entre dans la chappe (7) du moyeu (6)est vertical. L'embout(13b) qui entre dans la chappe (7) du cercle (2) est horizontal. Le blocage est assuré par le boulon (14). Bien que n'apparaissant pas sur la figure un boulon (14) bloque aussi l'embout (13b) dans la chappe (7)

La figure 10 représente une chappe (7) avec son boulon de blocage (14). Le dos de cette chappe est soudé soit au moyeu (6) soit au cercle (2).

La figure 11 représente le parasol tout monté avec son rideau latéral (24) ouvert sur son rail (25). Cette combinaison est possible car on trouve maintenant dans le commerce des rails à rideau auxquels on peut donner une forme cintrée.

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REVENDICATIONS

1) Parasol caractérisé en ce qu'il est constitué d'un pied décentré (5) supportant un entoilage (1) pouvant pivoter de 360° dans un plan horizontal et constituant une corolle pivotante.

2) Dispositif selon la revendication 1 caractérisé par la corolle bordée par un cercle (2) en métal glissé dans un ourlet de la toile (1) et maintenue bombée par une barre de cintrage (4)

3) Dispositif selon les revendications précédentes caractérisé par un moyeu (6) pouvant pivoter autour du pied (5) grace à une différence de diametre et une bague en plastique (12),le maintien dans la position voulue étant assuré par une vis de blocage (16)

4) Dispositif selon l'ensemble des revendications précédentes caractérisé par des bras (3) supportant le cercle (2) de la corolle, bras inégaux afin de creer le décentrage et reliés au cercle (2) et au moyeu (6) par des chappes (7).

5) Dispositif selon l'ensemble des revendications précédentes caractérisé par deux charnieres (9) séparables en deux éléments (26 et 27) permettant de partager le cercle (2) en deux demis-cercles(22 et23) ceci afin de rendre le montage possible et de replier la corolle apres l'avoir déposée.

6) Dispositif selon l'ensemble des revendications précédentes caractérisée par une console (8) soudée au pied (5) et prépercée afin d'assurer une bonne tenue au sol grace à des gougeons de fixation (20) serrés par écrou.

7) Dispositif selon l'ensemble des revendications précédentes caractérisé par un rideau latéral (24) ouvrable et fermable à volonté et destiné à stopper les rayons rasants.

8) Dispositif selon l'ensemble des revendications précédentes caractérisé par un entoilage (1) en toile-écran élastique insensible aux intempéries et perméable au vent.

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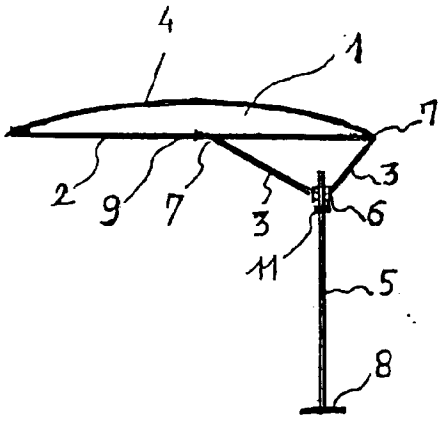


FIG 1

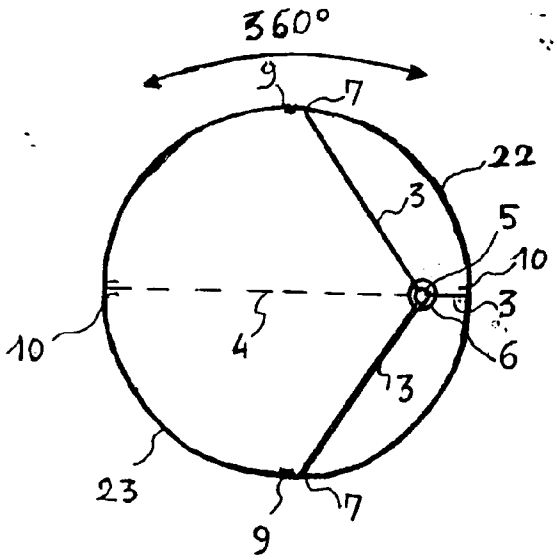


FIG 2

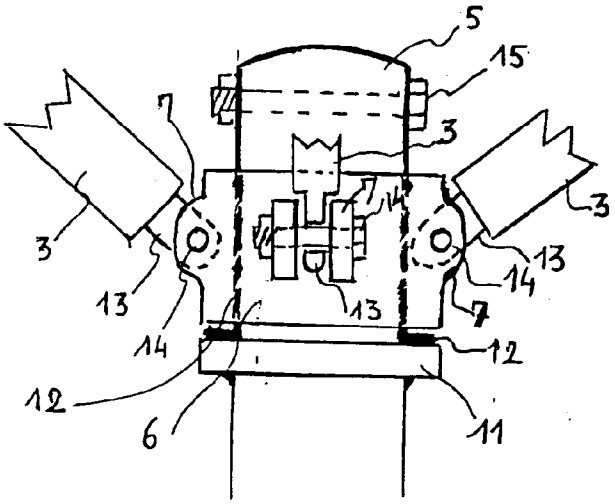


FIG 3

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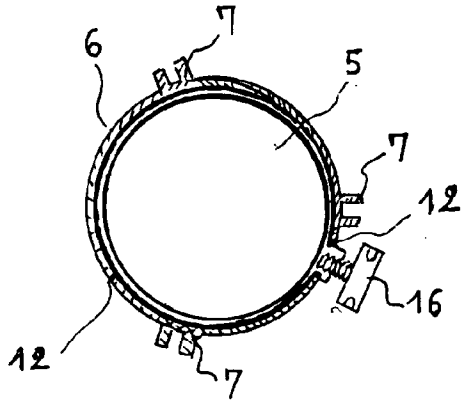


FIG 4

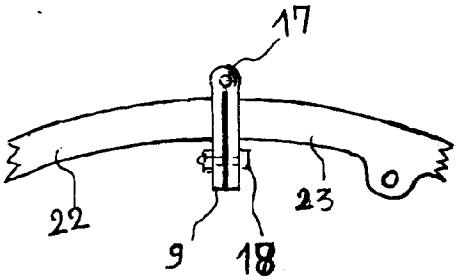


FIG 5

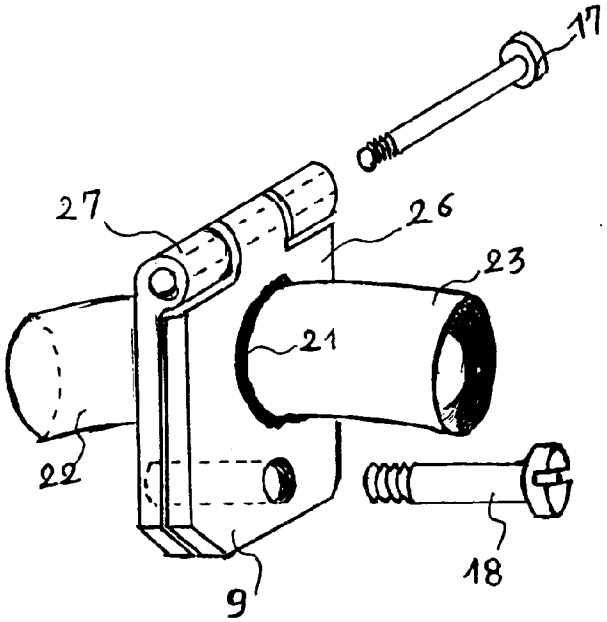


FIG 6

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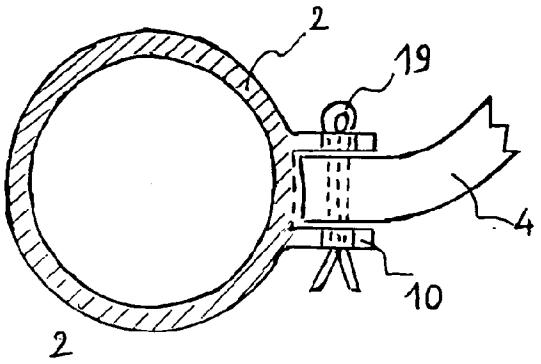


FIG 7

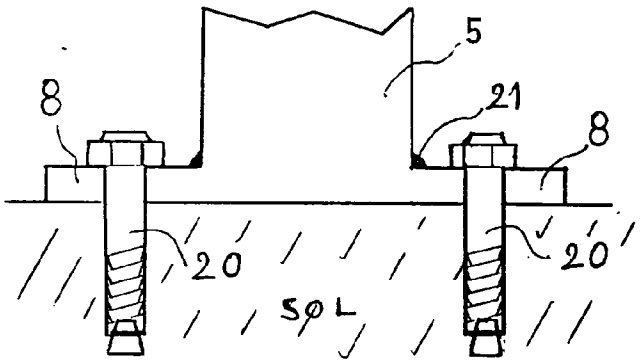


FIG 8

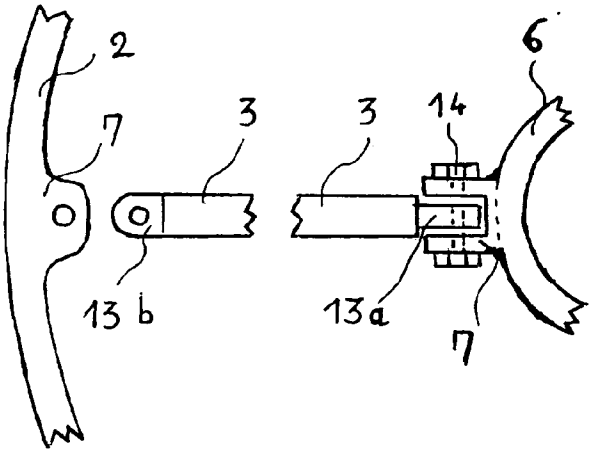


FIG 9

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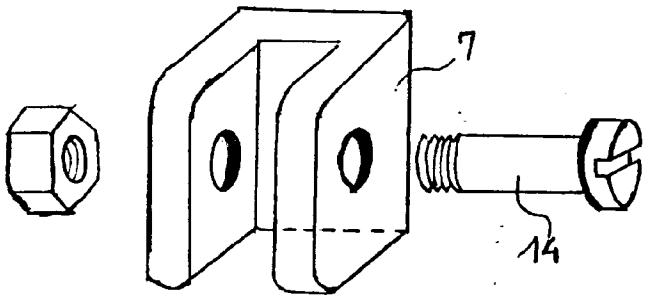


FIG 10

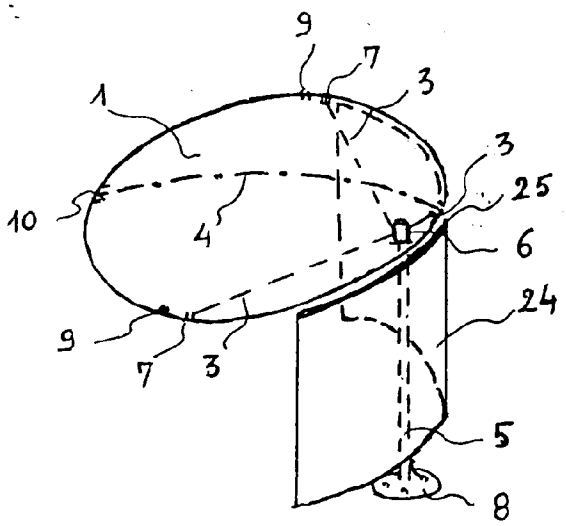


FIG 11

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2717849

N° d'enregistrement national

FA 499064
FR 9403714

DOCUMENTS CONSIDERES COMME PERTINENTS

Catégorie	Citation du document avec indication, en cas de besoin, des parties pertinentes	Revendications concernées de la demande examinée
X	US-A-4 312 371 (KOON) * colonne 2, ligne 56 - colonne 3, ligne 13; figures 10,11 *	1
A		2,3
X	FR-A-1 250 940 (GLATZ) * page 2, colonne de gauche, ligne 52 - ligne 60; figures 1,3 *	1
X	FR-A-2 322 565 (SAUVAGNAT) * le document en entier *	1
X	US-A-2 627 217 (HAINKE) * le document en entier *	1
A		3,6
X	FR-A-1 283 388 (LABATUT) * le document en entier *	1
A		6,7
X	US-A-3 383 814 (ROWE) * le document en entier *	1
A	FR-A-1 110 111 (STROMAYER) * le document en entier *	1,2,5
A	FR-E-73 196 (MORO) * le document en entier *	1,2,5
A	US-A-2 828 758 (MORO) * le document en entier *	1,2
A	GB-A-1 062 753 (BARNETT) * le document en entier *	1,7,8
A	FR-A-1 310 529 (COBLAS)	
A	FR-A-1 057 749 (CONILL)	

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DOMAINES TECHNIQUES RECHERCHES (Int.Cl.5)

A45B

1

Date d'achèvement de la recherche	Examinateur
30 Novembre 1994	Sigwalt, C

EPO FORM 1503 03.82 (P04C13)

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Catégorie	Citation du document avec indication, en cas de besoin, des parties pertinentes	
A	US-A-2 707 476 (CLEMENS) ---	
A	US-A-4 184 502 (ANDERSON) ---	
A	US-A-1 774 909 (WELLS) -----	

DOMAINES TECHNIQUES RECHERCHES (Int.Cl.5)

Date d'achèvement de la recherche	Examinateur
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Sun Shade With Off Centre Support And Rotating Shade

DOCUMENT ID **DATE PUBLISHED**
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PATENT FAMILY ID
9461560

DATE FILED
1994-03-24

CPC CURRENT

TYPE	CPC	DATE
CPCI	A 45 B 23/00	2013-01-01
CPCA	A 45 B 2023/0031	2013-01-01
CPCA	A 45 B 2023/0093	2013-01-01

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PUBLICATION DATE
19950929

Abstract

The sun shade has an off centre support (5) below a fabric shade (1) which can rotate through 360 degrees in a horizontal plane, forming a pivoting corolla. Around the edge of the shade there is a circle (2) of metal which slides into a hem around the edge of the shade. A curved bar (4) gives the shade an arched shape. There is a hub (6) which rotates around the foot (5) due to a difference in diameter and a plastic ring (12). The shade is held in the required position by a lock screw (16). The arms (3) supporting the circular edge (2) of the shade are unequal and are joined to the edge (2) and the hub (6) by fork joints (7). Two hinges (9) can be separated into two sections (26,27) allowing the circular shade to be separated into two semi-circles (22,23) which can be folded.

Description

The present invention relates to a new model of parasol.

Traditional parasols are appreciated for the shade they provide but have certain disadvantages:

-A central foot which can be a nuisance for the user.

-The impossibility, although reclining, to offer effective protection in all positions of the sun.

-A catch in the wind due to the waterproof nature of the canvas. This creates a sail effect which can cause the parasol to take off.

The present invention overcomes these drawbacks.

It consists of a metal tube fixed to the ground that we call the foot and a canvas part that we will call the corolla.

its characteristics are:

- a shift of the foot relative to the center of the corolla, which allows to take advantage of the maximum space.

- A hub that allows the corolla to rotate around the foot and thus follow the new sun.

- A canvas-screen interlining that filters my sun rays very well but lets water and air pass through, which helps to cancel out the sail effect.

- The addition of a sliding curtain on 1/3 of the perimeter will serve if necessary, to block the grazing rays of the sun.

The attached drawings illustrate the invention.

Figure 1 shows the umbrella seen at the bottom.

Figure 2 shows the parasol seen from above.

FIG. 3 represents, on a larger scale, the hub and the starting arms of the arms.

Figure 4 shows the cross section of the hub.

FIG. 5 represents the junction of the two semi-circular tubes and the arm arrival chappe.

Figure 6 shows the hinge in perspective.

a figure 7 represents the tube for holding the bending bar

Figure 8 shows the attachment of the foot to the ground.

FIG. 7 represents a chappe of arms, seen from above with departure of the arm and arrival of the arm in the circle.

a figure i O represents a single chappe in perspective.

Figure 11 shows the open sliding curtain.

Like all the others, this parasol is divided into two parts: a base and a covered corolla. oon originality consists in that the foot is off-center with respect to the corolla while remaining inside the circle formed by the latter. Another feature is that the corolla can rotate 3600 around the foot.

The foot) is a vertical tube fixed to the ground by a console (8)

Twenty centimeters from the top, a collar (11) is welded to it and serves as a support for a hub (6). Thanks to the difference in diameter, the hub can rotate freely around the base. This pivoting is facilitated by a plastic bue (12) slid between the two. Three caps (7) are welded to the hub. Each of them receives an end piece (13) of arms (3) which is screwed there. Two of these arms (3) are of equal length, the third is shorter which gives off-center. They join obliquely a cir, circular tube (2) which delimits the perimeter of the interlining. They are fixed there by arrival chaps (7) exactly similar to those of departure.

The circle (2) is formed by two semicircles joined at their ends by a hinge (9). On two other diametrically opposite points xnx are welded two tubes (10) intended to receive the bending bar (4) which will give the canvas its bulge.!

The interlining (1) consists of a screen-cloth round of the same diameter as the circle (2). Over its entire perimeter a sewn hem, 10 c centimeters flat, acts as a sheath. Despite the reliefs formed by the hinges (9) the caps (7) and the tubes (10) it is easy i.

insert the semicircles and then join them by the hinges to obtain the circle (2). We will see below the usefulness of the hinges.

some details:

The rounded appearance is obtained thanks to the elasticity of the screen fabric.

a traditional Dralon type canvas would require cuts and rounded assembly.

All the metal parts of the corolla are aluminum (weight gain) and removable.

FIG. 5 represents a view of the support assembly (11) hub (b) caps (7). It allows to better understand how the arms (3) are held as well as the utility of the plastic ring (12). We also see the bolt (15) which crosses the foot from side to side and prevents the exit of the hub.

Figure 4 shows the cross section of the same hub (6).

The purpose of this cut is to reveal the wing screw (16) which allows the corolla to be locked in the desired position. The plastic ring (12) which is integral with the hub (6) - and lines the entire interior a hole is drilled at the outlet of the screw (16)

Figure 5 shows the junction of the two semicircles (22 and 23) thanks to the hinge (9). It is this junction which will give the circle (2). This separation into two semicircles is necessary in order to be able to slide them one after the other in the sheath of the fabric (1).

Figure (6) shows the hinge (9) in detail. We see that this hinge can be separated into two elements (26 and 27) which hold at the ends of the semicircles (22 and 23) thanks to the weld (21). The blocking is done thanks to the screw 618) while the screw (17) allows the articulation. This possibility of articulation is important.

As mentioned above, the covering (1) of the corolla lets the wind through. This is why this parasol does not close like an ordinary parasol or a fairground umbrella and can be left open throughout the good season. However, the user can consider dismantling it and bringing it in when winter approaches. As all the elements are bolted or keyed together, disassembly poses no problem whatsoever. An average handyman does it in ten minutes. If the foot (5) its console (8) the hub (6) the arms (3) and the bending bar (4) are very easily placed on a shelf it does not The same is not true for the interlining. The largest diameter for the corolla is 2.90 m

A round of canvas edged with metal, therefore rigid, of this dimension does not easily find its place. The user has two solutions:

-It can dismantle the hinges (9) thanks to the bolts (1 and 18) and slide the semicircles (22 and 23) out of the sheath. This thread made it will roll the canvas. It's tedious.

-It can simply remove the bolt (18) and close the corolla like a book, canvas in place. He then obtains a semicircle long of 2; 2.90 m, 1.45 m high and less than 10 cm thick that it can wedge against a garage wall. It's simpler and faster.

The little DIY user can leave the parasol in place and simply close the corolla. The canvas screen withstands all weather conditions including snow.

FIG. 7 represents a cross section of the circle (2) showing the support tube (10) of the bending bar (4) as well as the safety pin (19).

Figure 8 shows the attachment of the parasol to the ground. It is obvious that the off-center of the foot poses a stability problem. Security must be ensured by effective fixing. The console (8) secured to the foot (5) thanks to the weld (21) is pierced with three 11 mm diameter holes. Each of these holes receives a fixing pin (20) which is tightened by a nut. On concrete floors this poses no problem.

In the case of loose ground, a concrete cube should be buried under the console.

Figure 9 shows an arm (3) and its flat tips (13) seen from above. The end piece (13a) which enters the clevis (7) of the hub (6) is vertical. The end piece (13b) which enters the clevis (7) of the circle (2) is horizontal. The blocking is ensured by the bolt (14). Although not shown in the figure, a bolt (14) also blocks the end piece (13b) in the clevis (7)

Figure 10 shows a clevis (7) with its locking bolt (14). The back of this cap is welded either to the hub (6) or to the circle (2).

Figure 11 shows the parasol all assembled with its side curtain (24) open on its rail (25). This combination is possible because there are now commercially available curtain rails which can be given a curved shape.

Claims

1) Parasol, characterized in that it consists of an off-center foot (5) supporting a covering (1) which is new to rotate 360 in a horizontal plane and constituting a pivoting corolla.

2) Device according to claim 1 characterized by the corolla bordered by a circle (2) of metal slid in a hem of the fabric (1) and kept curved by a bending bar (4)

3) Device according to the preceding claims characterized by a hub (5) which can pivot around the foot (5t thanks to a difference in diameter and a plastic ring (12), the maintenance in the desired position being ensured by a locking screw (16)

4) Device according to all of the preceding claims characterized by arms (3) supporting B circle (2) of the corolla, unequal arms in order to create off-center and connected to the circle (2) and to the hub (6) by scoops (7).

5) Device according to all of the preceding claims characterized by two hinges (9) separable into two elements (26 and 27) for sharing the circle (2) in two semicircles (22 and 23) this in order to make mounting possible and to fold up the corolla after having deposited it.

6) Device according to the set of preceding claims characterized by a console (8) welded to the foot (5) and pre-drilled in order to ensure good ground resistance thanks to fixing studs (2C) tightened by nut.

7) Device according to all of the preceding claims characterized by a side curtain (24) openable and closable at will and intended to stop the grazing rays.

S) Device according to all of the preceding claims, characterized by an interlining (1) made of elastic canvas insensitive to weathering and permeable to wind.

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Doc code: IDS
Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (02-18)
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(Not for submission under 37 CFR 1.99)

Application Number	17417739
Filing Date	2020-06-22
First Named Inventor	Paul T. James
Art Unit	
Examiner Name	Noah Chandler Hawk
Attorney Docket Number	254/3 UTIL

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	2	11219286	B2	2022-01-11	Brian Cox	E04H 15/58

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	2	20120291830	A1	2012-11-22	Charles Crimi	04H 15/58 135/117
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	Art Unit	
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First Named Inventor	Paul T. James
Art Unit	
Examiner Name	Noah Chandler Hawk
Attorney Docket Number	254/3 UTIL

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Ashley D. Johnson/	Date (YYYY-MM-DD)	
Name/Print	Ashley D. Johnson	Registration Number	58482

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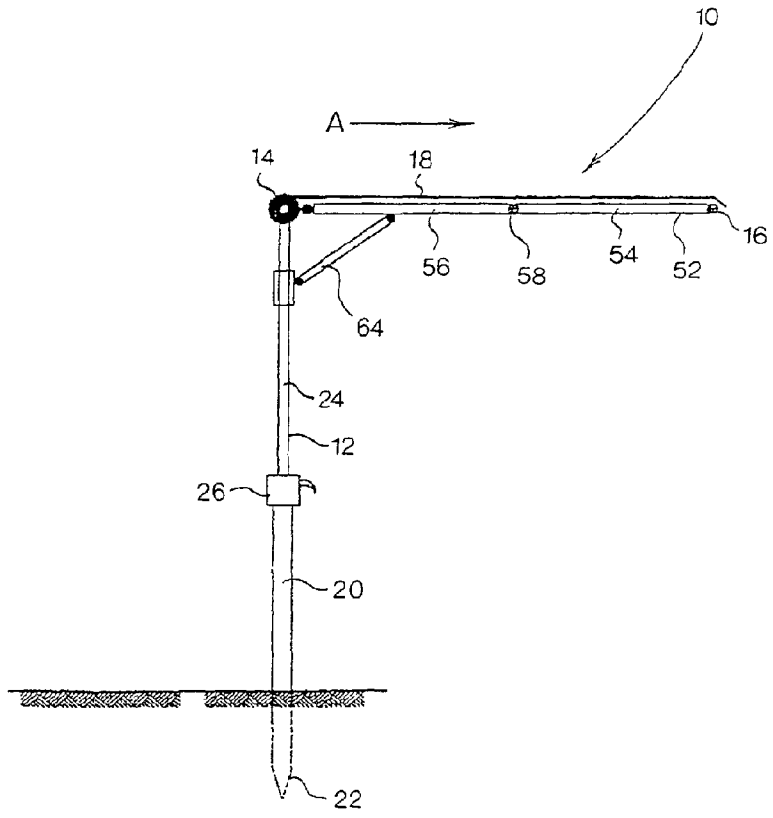
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[Continued on next page]

(54) Title: SUN SHADE



(57) Abstract: A collapsible sun shade (10) is provided which in use has a support pole (12) positioned at or near one edge of one or more lengths of shade material (18). The length(s) of material (18) is (are) attached to a cross-bar (14) which is movably attached to the support pole (12) at or near the top thereof, and is supported in an operative condition by a frame (16) which is attached to the cross-bar (14) and/or to the support pole (12).

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SUN SHADE

BACKGROUND TO THE INVENTION

This invention relates to a collapsible sun shade.

Conventional sun shades or umbrellas have a central support pole which supports a concave canopy. The concave shape of the canopy results in a fairly large surface area of the canopy being exposed to the force of a wind, and the central support pole tends to act as a fulcrum, thereby making the sun shade unstable and therefore unsuitable for use as a sun shade in windy conditions. The applicant has therefore identified a need for a sun shade which is suitable for use as a sun shade in windy conditions.

SUMMARY OF THE INVENTION

According to the invention there is provided a collapsible sun shade comprising:

a support pole adapted to be located substantially upright in use;

a cross-bar movably attached to the support pole at or near the top thereof in use;

a length of a shade material attached at or near one end to the cross-bar; and

a frame attached to the cross-bar and/or to the support pole to support the length of shade material in use to provide an area of shade.

CONFIRMATION COPY

The cross-bar and frame may be arranged in a substantially planar configuration in an operative state so as to support the shade material in use in a substantially planar configuration.

The cross-bar may comprise a single element which may be moved off the support pole when not in use, for storage purposes.

Alternatively, the cross-bar may comprise two elements hingedly attached to the support pole on either side thereof, the elements being movable between a storage position in which they abut the support pole and an operative position in which they are substantially at right angles to the support pole.

In plan view, the cross-bar may be straight or V-shaped or any other suitable shape.

In a preferred embodiment of the invention, the cross-bar or each element thereof includes a cavity along its length, into which the length of shade material may be rolled when not in use.

The frame may comprise one or more arms attached to the support pole or to the cross-bar, and to one another.

For example, the frame may be triangular in plan view with an apex of the triangle attached to the support pole, i.e. formed from three arms.

Alternatively, the frame may be designed to form with the cross-bar, a shape which is rectangular in outline.

Further alternatively, the frame may be designed to be X-shaped, with two adjacent ends of the X attached to the ends of the cross-bar.

Preferably, the frame includes one or more struts located in use between the support pole and an arm of the frame to support the frame in use.

Each arm of the frame may be formed from two or more parts which are either hingedly attached to one other so that the frame may be folded to abut the support pole in the storage position, or where a first part retracts into a second part, which then may be folded about a hinge to abut the support pole in the storage position.

As a further alternative, the frame may be demountable from the cross-bar and/or the support pole for storage purposes.

The mode of connection of the cross-bar to the support pole and/or of the frame to the support pole and/or cross-bar, may be designed to permit the frame to be angled in more than one position relative to the support pole, to increase or decrease the area of shade.

The length of shade material may be removably or permanently attached to the cross-bar in any suitable manner.

The sun shade may include a secondary pole adapted to be located substantially upright and spaced from the support pole in use, to provide additional support for the frame.

BRIEF DESCRIPTION OF THE DRAWINGS

Figures 1a and 1b are plan and side views respectively of a first sun shade of the invention;

Figures 2a and 2b are plan and side views respectively of a second sun shade of the invention; and

Figures 3a and 3b are plan and side views respectively of a third sun shade of the invention

DESCRIPTION OF EMBODIMENTS

The invention will now be described in more detail with reference to the accompanying drawings.

Referring to Figures 1a and 1b, there is shown a sun shade 10 consisting of a support pole 12, a cross-bar 14, a frame 16, and two lengths of shade material 18 supported on the frame 16.

The support pole 12 is formed in two sections, a first section 20 having a pointed end 22 for insertion into the ground, and being hollow, and a second section 24 adapted to slide in the first section 20 and to be secured in position by means of a clasp 26. A universal joint (not shown) is located on the second section 24 to permit a portion of the second section located above the universal joint to be tilted.

The cross-bar 14 consists of two elements 28, 30, each of which are hingedly attached at 32, 34 to the support pole 12. Thus, the two elements 28, 30 may be moved between a collapsed or storage position in which they abut the support pole 12, and an operative or uncollapsed position, as illustrated, in which they are substantially at right angles to the support pole 12.

Each element 28, 30 of the cross-bar 14 includes an elongate cavity into which the lengths of shade material 18 may be rolled when not in use.

The frame 16 is triangular in plan view and consists of three arms, a first arm 36 consisting of two sections 38, 40 connected by a hinge 42; a second arm 44 consisting of two sections 46, 48 connected by a hinge 50; and a third arm 52

consisting of two sections 54, 56 joined by a hinge 58. In addition, the section 48 of the second arm 44 is connected by means of a hinge 60 to the section 54 of the third arm 52, and likewise the section 46 of the second arm 44 is connected via a hinge 62 to the section 40 of the first arm 36. This enables the frame 16 to be folded so that in the storage position, all the elements of the frame 16 abut the support pole 12.

The frame 16 includes two struts 64 between the support pole 12 and the underside of the arms 36, 52 to support the frame 16 in use.

The sun shade 10 may be used as follows.

In the storage position, all the elements of the sun shade 10 are folded about their various hinges and joints to form a compact bundle. When it is desired to use the sun shade 10, the two sections 28, 30 of the cross-bar 14 are moved about their hinges 32, 34 to a position at which they are substantially at right angles to the support pole 12, and the various elements of the frame 16 are folded out to form the triangular shape illustrated in Figure 1a. Thereafter, the two lengths of shade material 18 are rolled out of the two sections 28, 30 of the cross-bar 14 and suitably attached to the second arm 44 of the frame 16, so that the lengths of shade material are arranged in a substantially planar configuration, and extend from one side only of the cross-bar 14. It can be seen that the sun shade 10 then provides a suitable area of shade.

Generally, the sun shade 10 will be erected in accordance with the prevailing wind direction, illustrated by the arrow A in Figure 1b.

The support pole 12 may be made from any suitable material such as steel or a suitable plastics material. The cross-bar 14 may also be made from any suitable material such as for example aluminium or carbon fibre.

Likewise, the frame 16 may be made from any suitable material such as aluminium or carbon fibre.

The length of shade material may be any suitable material which will provide an adequate degree of shade.

Referring to Figures 2a and 2b, there is shown a sun shade 100 which is similar to the sun shade 10 except for the construction of the cross-bar and the frame. Thus, like parts will be numbered with the same numbers as in Figures 1a and 1b.

The sun shade 100 includes a cross-bar 102 which is V-shaped in plan view as illustrated in Figure 2a and consists of a first section 104 and a second section 106 hingedly attached to the support pole 12.

The sun shade 100 also includes a frame 108 consisting of an arm 110, also hingedly attached to the support pole 12, and including an extension 112, and extensions 114, 116 from the sections 104, 106 of the cross-bar 102, and support bar 120. From Figure 2a, it can be seen that when the cross-bar 102, the arm 110 and the extensions 112, 114 and 116 are in their extended positions, the frame has a substantially rectangular outline in plan view.

A length of a shade material 118 may then be stretched across the frame 108 to complete the sun shade 100.

When it is desired to collapse the sun shade into the storage position, the length of shade material 118 is disconnected from the frame 108, the extensions 112, 114 and 116 are retracted into arm 110 and sections 104 and 106 of the cross-bar 102, respectively, the support bar 120 is removed,and the sections 104, 106 of the cross-bar 102 and arm 110 are then moved into the storage position.

Referring to Figures 3a and 3b there is shown a sun shade 200 which again is similar to the sun shade 10 of Figures 1a and 1b and thus with like parts being numbered with the same numbers.

The sun shade 200 includes a cross-bar 202 comprising two sections 204, 206 hingedly attached to the support pole 12.

Also attached to the support pole 12 is an arm 208, which forms, together with the cross-bar 202, a T-shape.

The sunshade 200 includes a frame 210 consisting of two arms 212, 214 which cross and are supported by a joint 216. Thus, in plan view, the frame 210 is X-shaped.

The sun shade 200 includes struts 220 to support the frame 210 in use.

A length of shade material 222 may be stretched from the cross-bar 202 to the ends 224, 226 of the frame 210 to be supported in position in use.

When it is desired to store the sun shade 200, the two arms 212, 214 may be removed from the joint 216, the length of shade material 222 may be removed from the frame 210 and cross-bar 202 or may be retracted into cavities within sections 204 and/or 206 of the cross-bar 202, and the two sections 204, 206 of the cross-bar 202 may be hingedly folded about the support pole 12, as may be the arm 208. The whole construction may then be stored as a bundle.

The advantages of the sun shade of the invention are that it is stable in the vertical and horizontal planes, it gives optimum shade taking into account the movement of the sun, it is easy to erect, it is convenient to transport and store, it is lightweight, it is durable and strong, it is suitable for use as a sun shade in windy conditions, and finally it is safe to use.

CLAIMS

1. A collapsible sun shade comprising:
a support pole adapted to be located substantially upright in use;
a cross-bar movably attached to the support pole at or near the top thereof in use;
a length of a shade material attached at or near one end to the cross-bar; and
a frame attached to the cross-bar and/or to the support pole to support the length of shade material in use to provide an area of shade.

2. A collapsible sun shade according to claim 1, wherein the cross-bar and frame are arranged in a substantially planar configuration in an operative condition so as to support the length of shade material in use in a substantially planar configuration

3. A collapsible sun shade according to either of claims 1 or 2, wherein the cross-bar comprises a single element which is moveable off the support pole when not in use.

4. A collapsible sun shade according to either of claims 1 or 2, wherein the cross-bar comprises two elements hingedly attached to the support pole on either side thereof, the elements being movable between a storage position in which they abut the support pole and an operative position in which they are substantially at right angles to the support pole.

5. A collapsible sun shade according to any one of claims 1 to 4, wherein in plan view, the cross-bar is straight.

6. A collapsible sun shade according to any one of claims 1 to 4, wherein in plan view, the cross-bar is V-shaped.

7. A collapsible sun shade according to any one of claims 1 to 6, wherein the cross-bar or each element thereof includes a cavity along its length, into which the length of shade material may be rolled when not in use.

8. A collapsible sun shade according to any one of claims 1 to 7, wherein the frame comprises one or more arms attached to the support pole or to the cross-bar, or to one another.

9. A collapsible sun shade according to any one of claims 1 to 8, wherein the frame is triangular in plan view with an apex of the triangle attached to the support pole.

10. A collapsible sun shade according to any one of claims 1 to 8, wherein the frame is designed to form with the cross-bar a shape which is rectangular in outline.

11. A collapsible sun shade according to any one of claims 1 to 8, wherein the frame is designed to be X-shaped, with two adjacent ends of the X attached to the ends of the cross-bar.

12. A collapsible sun shade according to any one of claims 1 to 11, wherein the frame includes one or more struts located in use between the support pole and an arm of the frame to support the frame in use.

13. A collapsible sun shade according to any one of claims 1 to 12, wherein each arm of the frame is formed from two or more parts which are hingedly attached to one other so that the frame can be folded to abut the support pole in the storage position.

14. A collapsible sun shade according to any one of claims 1 to 12, wherein each arm of the frame is formed from two or more parts wherein a first part retracts into a second part, which then can be folded about a hinge to abut the support pole in the storage position.

15. A collapsible sun shade according to any one of claims 1 to 14, wherein the frame is demountable from the cross-bar and/or the support pole for storage purposes.

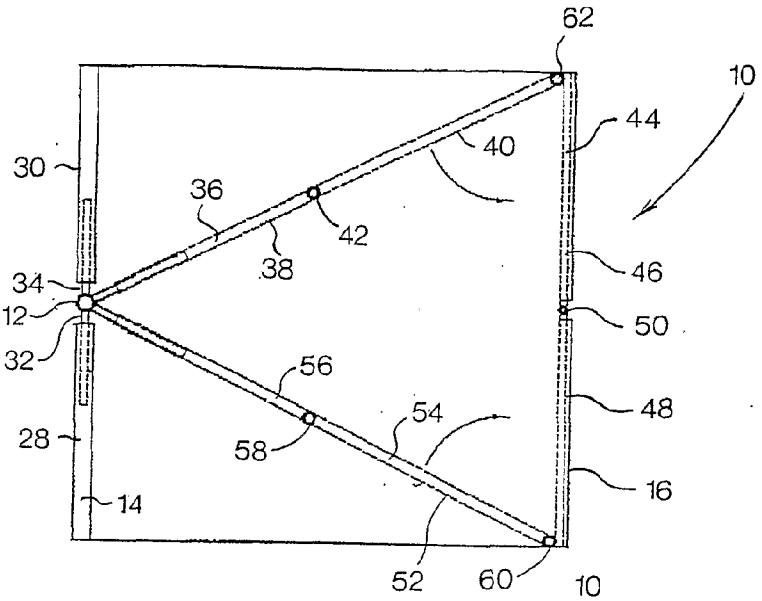
16. A collapsible sun shade according to any one of claims 1 to 15, wherein the mode of connection of the cross-bar to the support pole and/or of the frame to the support pole and/or cross-bar, is designed to permit the frame to be angled in more than one position relative to the support pole, to increase or decrease the area of shade.

17. A collapsible sun shade according to any one of claims 1 to 16, wherein the length of shade material is removably or permanently attached to the cross-bar in any suitable manner.

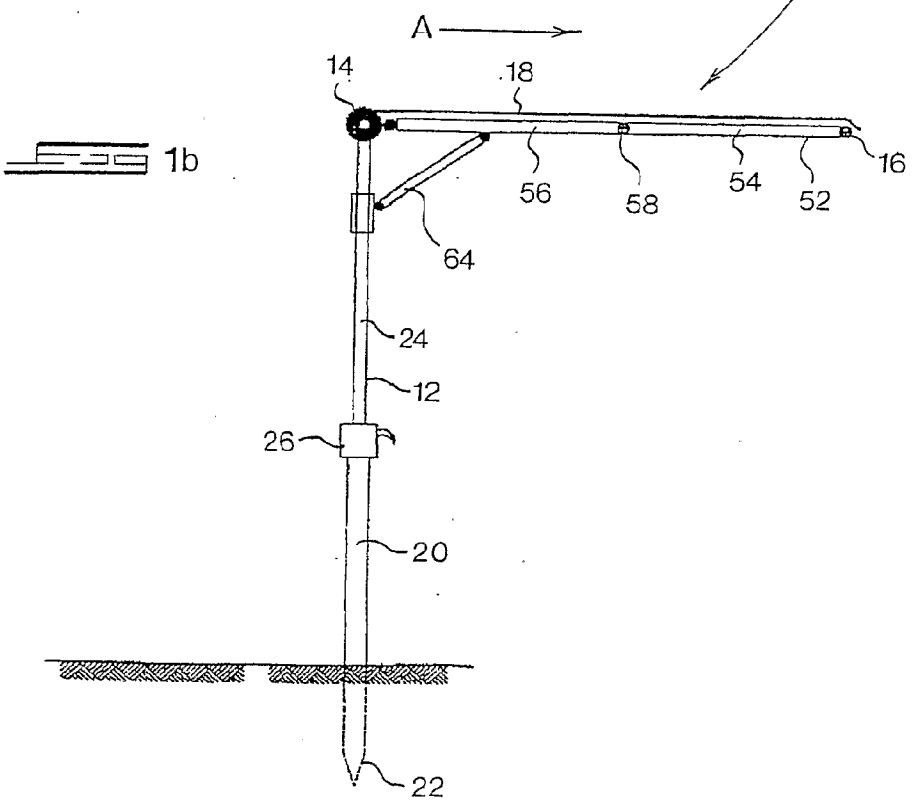
18. A collapsible sun shade according to any one of claims 1 to 17, which includes a secondary pole adapted to be located substantially upright and spaced from the support pole in use, to provide additional support for the frame.

19. A collapsible sun shade according to claim 1, substantially as herein described with reference to any one of the illustrated embodiments.

1a


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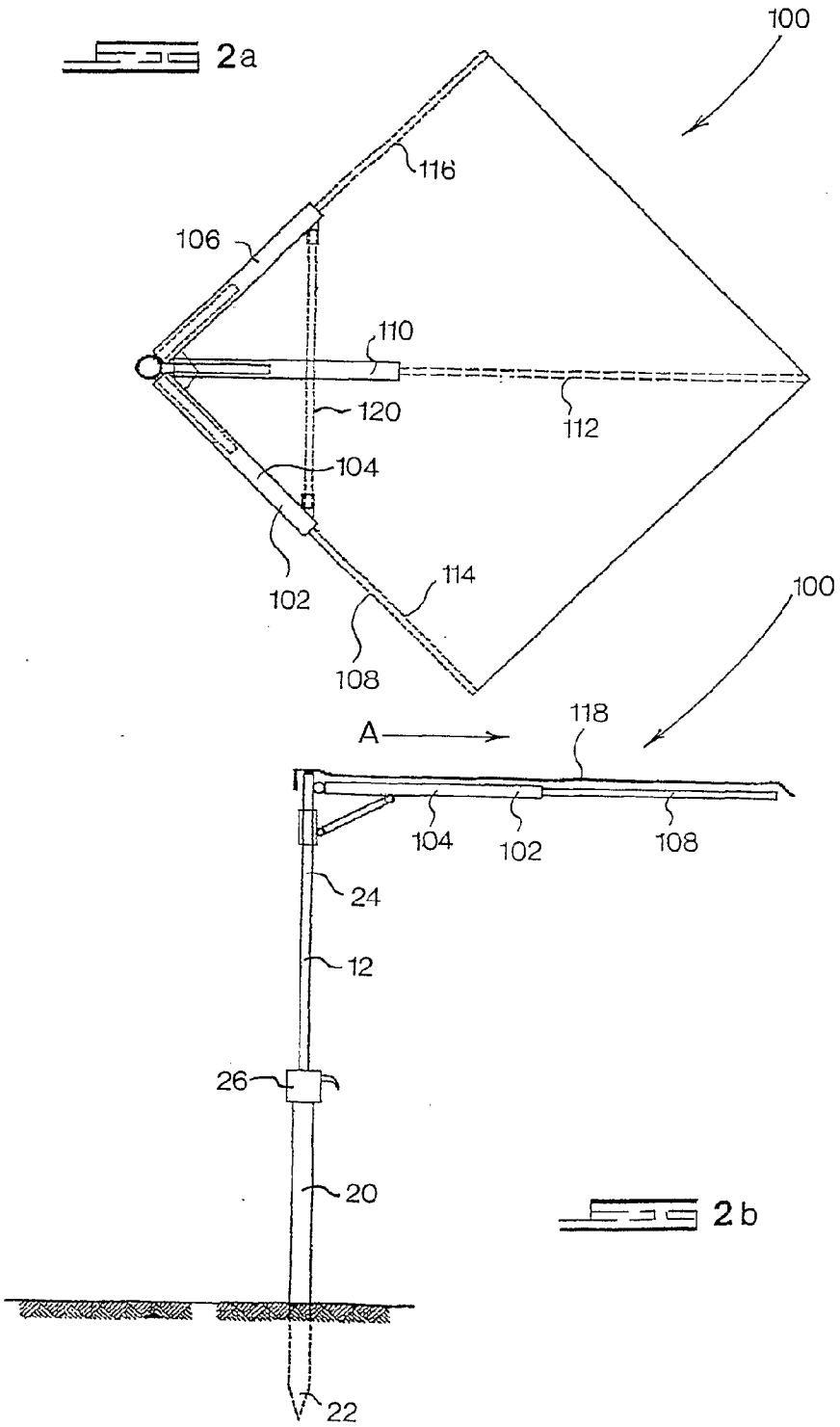

2a
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Fig 3a

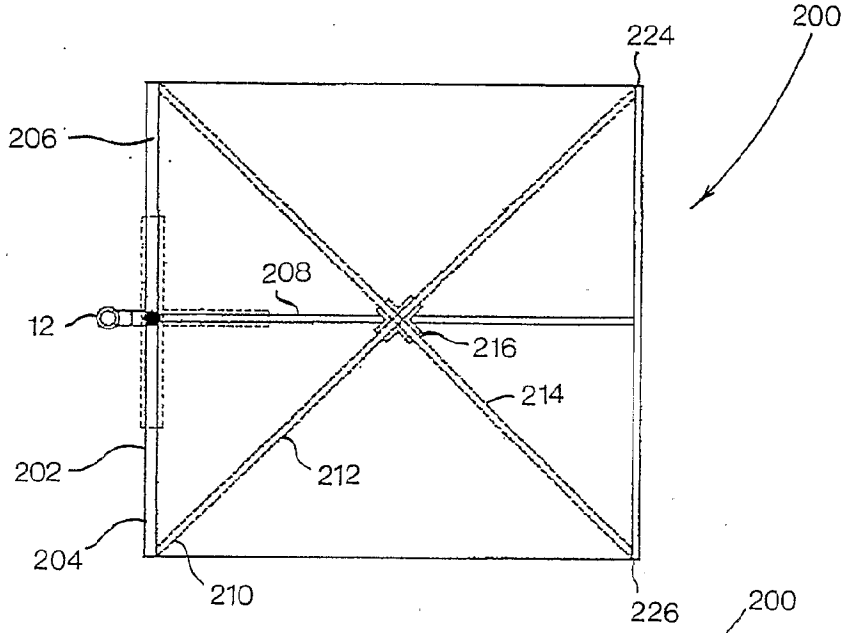
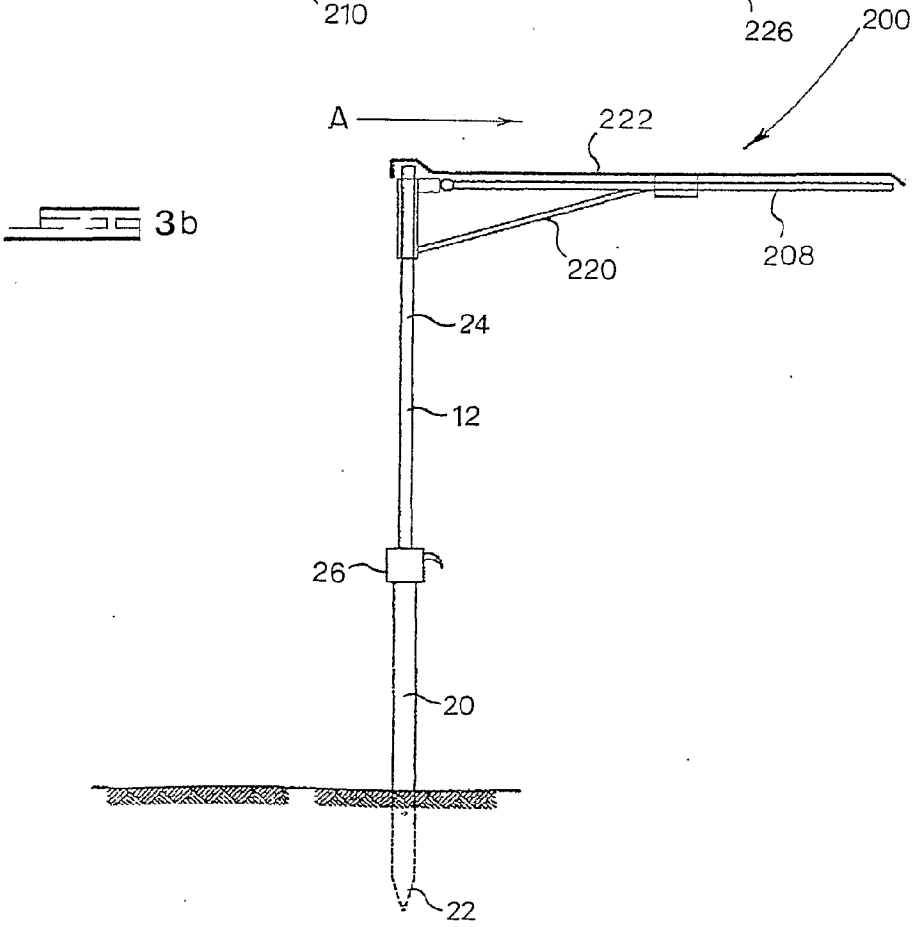

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Fig 3b


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PE2E SEARCH - Search History (Prior Art)

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		EP-2594151-A1).did. AND DWPI.dbnm.) OR ((WO-0211578-A2 OR FR-2717849-A1 OR WO-2013137768-A1 OR EP-1500345-A1 OR CN-109229301-A OR DE-102009023382-A1 OR DE-202007012548-U1 OR WO-8102907-A1 OR FR-2684128-A1 OR DE-202017001755-U1 OR DE-202013007555-U1 OR CN-208211658-U).did. AND FTDB.dbnm.) OR ((US-3075536-A OR US-3070107-A).did. AND USOC.dbnm.)					
L13	26	L12 AND (mov$ OR rotat$ OR twist$ OR pivot$ OR turn$)	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/04/08 01:07 PM
L14	3	solbello.asn.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2025/04/08 03:52 PM

PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.:	18/367,224
CONFIRM. NO.:	9298
APPLICANT:	Solbello, LLC
INVENTOR:	Paul T. James
FILED:	September 12, 2023
ART UNIT:	3636
EXAMINER:	Terrence R. Till
CUSTOMER NO.:	36829
DOCKET NO.:	1500/2US-RE
TITLE:	SELF-ADJUSTING SUN SHADE ASSEMBLY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL REISSUE DECLARATION UNDER 37 CFR 1.175

Dear Sir:

As required under 37 CFR 1.175, Applicant respectfully submits the following statement of at least one error which is relied upon to support the present reissue application. Claim 1 of Applicant's original patent (U.S. Pat. No. 11,596,211) contains certain unnecessary limitations which render the patent wholly or partially inoperative. Specifically, Claim 1 of the original patent recites the unnecessary limitation "*at least one support arm*." Original Claim 1 is broadened in the Preliminary Amendment filed on February 5, 2024 by removing this limitation from newly added independent Claims 41, 47, 53 and 54.

Applicant respectfully submits that all claims of the reissue application are in condition for allowance. Such action is therefore respectfully requested at an early date. If the Examiner believes that issues remain for discussion, he is invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

/jeffreyjschwartz/

Jeffrey J. Schwartz
Attorney for Applicant
Registration No. 37,532

Jeffrey J. Schwartz
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UNITED STATES
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P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**11/12/2024 09:11:26 AM Z ET**	**1500/2US-RE**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	67923056	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
Supp Reissue Declaration.pdf	2	Supplemental reissue declaration filed in accord with Manual of Patent Examining Procedure(MPEP) 1414.01	133 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
Supp Reissue Declaration.pdf	CD67B0252FDC139BDB7DAA64DEA4FA74748C04BBB85DDF7 6B0398217920008A905DBC5BBE87ED17E1D6864CCF52EC489 F824E29A2285D7E55D43E2D19532C743

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

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Litigation Search Report CRU 3999

Reexamination Control No. 18/367,224

To:	Examiner Till	**From:**	B. Harden, Paralegal
Location:	OCRU	**Location:**	OCRU
Art Unit:	3993	**Phone:**	7037561815
Date:	27 March 2024	**E-mail:**	brian.harden@uspto.gov

Search Notes

NO LITIGATION WAS FOUND

1. Performed a KeyCite Search in Westlaw, which retrieves all history on the patent including any litigation.
2. Performed a search on the patent in Lexis CourtLink for any open dockets or closed cases.
3. Performed a search in Lexis in the Federal Courts and Administrative Materials databases for any cases found.
4. Performed a search in Lexis in the IP Journal and Periodicals database for any articles on the patent.
5. Performed a search in Lexis in the news databases for any articles about the patent or any articles about litigation on this patent.

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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/367,224	09/12/2023	3636	700		20	2

CONFIRMATION NO. 9298

UPDATED FILING RECEIPT

36829
SCHWARTZ LAW FIRM, P.C.
6100 FAIRVIEW ROAD
SUITE 1135
CHARLOTTE, NC 28210

OC000000067907943

Date Mailed: 02/22/2024

Receipt is acknowledged of this reissue patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Paul T. James, Wrightsville Beach, NC;

Applicant(s)

Solbello, Inc., Wilmington, NC, Assignee (with 37 CFR 1.172 Interest);

Power of Attorney: The patent practitioners associated with Customer Number 36829

Domestic Priority data as claimed by applicant

This application is a REI of 17/417,739 06/23/2021 PAT 11,596,211

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 10/18/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/367,224**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No
**** MICRO ENTITY ****
Title

SELF-ADJUSTING SUN SHADE ASSEMBLY

Preliminary Class

135

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

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Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/367,224

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	64
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	140
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	464
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	668

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

PTO/SB/08a (07-09)
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1 of 1

Complete if Known	
Application Number	18367224
Filing Date	09-12-2023
First Named Inventor	Paul T. James
Art Unit	
Examiner Name	
Attorney Docket Number	1500/2US-RE

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Document Number Number-Kind Code[2] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US- 20080196754	08-21-2008	Saiz	
		US-			
		US-			
		US-			
		US-			
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.[1]	Foreign Patent Document Country Code[3]–Number[4]–Kind Code[5] *(if known)*	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T[6]

Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

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UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**02/05/2024 04:24:29 PM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	64212914	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 1

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
IDS_2.2024.pdf	2	Information Disclosure Statement (IDS) Form (SB08)	583 KB

Warning: This is not a USPTO supplied IDS fillable form. Data in the form cannot be automatically loaded to other USPTO systems.

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
IDS_2.2024.pdf	F39BC8A71CA3D05404C70632CF764B3F26FB9C1C9204F90C8 61099636FF2AC10C481871CCAAC633AC2F970004ED463A572 3340DF8CDFFFF759BD9B5D29F2E5EC

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described in MPEP 503.

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National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**02/05/2024 03:09:33 PM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	64210352	AUTHORIZED BY	-
CUSTOMER #	36829	FILING DATE	09/12/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul T. James

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 6787	**E202425F10356012**	**Jeffrey Schwartz**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
3205	EACH REISSUE CLAIM IN EXCESS OF 20	20.00	17	340.00
3204	EACH REISSUE INDEPENDENT CLAIM IN EXCESS OF THREE	96.00	3	288.00
			TOTAL AMOUNT:	**$628.00**

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**02/05/2024 03:09:33 PM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
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CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
CLAIMS-APP.TEXT.docx	12	Application body structured text document	19 KB
Warning: One or more pages are missing page numbering. Page numbering will be automatically applied after submission.			
REMARKS-REM.docx	1	Applicant Arguments/Remarks Made in an Amendment	13 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
CLAIMS-APP.TEXT.docx	3386EBBE8C3CE4369D41AAEA94EB9C6DB233084D8A1B8001 D82411ABB659BDD176A66C7229216B0F56A319C2CFFAE9027 968FF4CEE789D2B69EEA7395DDCADC7

REMARKS-REM.docx

572C19999263FF5C01B6149CE17B17EDCD98FA04B277F8429
D68EE0D1013101248A4DED668DDDA3C311FEB3A99045323C
9C51BA7CA8070CBEF70E65D129FC3FA

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

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REMARKS/ARGUMENTS

Claims 1-20 are cancelled herein in favor of new Claims 21-57. New Claims 21-40 correspond to those issued in original U.S. Patent No.11,596,211.

Applicant respectfully submits that the pending claims are in condition for allowance. Such action is therefore respectfully requested at an early date. If the Examiner believes that issues remain for discussion, he is invited to contact the undersigned at the telephone number indicated below.

Respectfully submitted,

/jeffreyjschwartz/

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO. :	18/367,224
CONFIRM. NO.:	9298
APPLICANT:	Solbello, LLC
INVENTOR:	Paul T. James
FILED:	September 12, 2023
ART UNIT:	3636
EXAMINER:	Not Yet Assigned
CUSTOMER NO.:	36829
DOCKET NO.:	1500/2US-RE
TITLE:	SELF-ADJUSTING SUN SHADE ASSEMBLY

PRELIMINARY AMENDMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Madam/Sir:

Prior to examination of the above-identified application, please amend the application as follows:

Amendments to the Claim are reflected in the listing which begins on page 2 of this paper.

Remarks begin on page 11 of this paper.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-20 (Cancelled).

21. (New) A sun shade assembly comprising:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

22. (New) The assembly of claim 21, wherein the pivot cap rotates about the mast at an

angle of about 0-360 degrees.

23. (New) The assembly of claim 21, wherein the ribs are configured at an angle of greater than 180 degrees relative to each other.

24. (New) The assembly of claim 21, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

25. (New) The assembly of claim 21, wherein the slider is configured as a collar that fits around the exterior circumference of the mast.

26. (New) The assembly of claim 21, wherein the anchor is releasably attached to the second end of the mast.

27. (New) The assembly of claim 21, wherein the sail channel comprises one or more apertures to facilitate insertion of the ribs into the channel.

28. (New) The assembly of claim 21, wherein the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm.

29. (New) The assembly of claim 21, wherein the sail has a top face and a bottom face,

and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

30. (New) The assembly of claim 21, wherein the sail has a top face and a bottom face and wherein at least one of the top or bottom faces comprises a coating.

31. (New) The assembly of claim 21, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

32. (New) The assembly of claim 21, wherein the mast comprises at least one handle for gripping the mast.

33. (New) The assembly of claim 21, further comprising a tension adjuster that adjusts rotation of the pivot cap about the mast.

34. (New) The assembly of claim 33, wherein the tension adjuster is configured to permit the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

35. (New) A method of using a sunshade, the method comprising:

positioning the anchor of a sun shade assembly in a support surface, wherein the sun

shade assembly comprises:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

36. (New) The method of claim 35, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

37. (New) The method of claim 35, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

38. (New) The method of claim 35, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

39. (New) The method of claim 35, wherein the sunshade assembly further comprises a tension adjuster that adjusts rotation of the pivot cap about the mast, and wherein the method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, support arms, slider, and sail relative to the non-movable mast.

40. (New) The method of claim 39, wherein the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

41. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface;

a pair of pivoted ribs carried by said mast and configured to rotate relative to the supporting surface, and said pivoted ribs adapted to lift outwardly from said mast at respective pivot points into an unfolded condition and to lower at respective pivot points from the unfolded condition to a folded condition alongside said mast;

a sail having a proximal edge secured to each of said pivoted ribs, and an unrestrained free edge opposite the proximate edge; and

whereby said sail is unfolded by lifting said pivot ribs outwardly from said mast from the folded condition into the unfolded condition such that the unrestrained free edge of said sail unfurls in response to blowing of the wind, and wherein said sail and ribs rotate together to a direction of the blowing wind.

42. (New) The assembly of claim 41, and comprising a cap located at a top end of said mast, and wherein the first ends of said pivoted ribs are pivotably attached to said cap.

43. (New) The assembly of claim 42, wherein said cap is adapted to rotate about said mast, such that said sail and pivoted ribs when unfolded rotate together at an angle from about 0 to 360 degrees in response to blowing of the wind.

44. (New) The assembly of claim 42, further comprising a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and ribs in response to blowing of the wind.

45. (New) The assembly of claim 41, and comprising an anchor located at a bottom end of said mast.

46. (New) The assembly of claim 41, and comprising at least one handle for gripping said mast.

47. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

at least one rib located proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge secured to said rib and an unrestrained free edge adapted to unfurl in response to blowing of the wind, and wherein an entire surface area of said sail is unrestrained from the proximal edge to the free edge; and

when unfurled, said sail and rib are adapted to rotate together to a direction of the blowing wind.

48. (New) The assembly of claim 47, wherein said at least one rib is attached to a cap located at the top end of said mast.

49. (New) The assembly of claim 48, wherein said cap is adapted to rotate about said mast, such that said sail and rib rotate together at an angle from about 0 to 360 degrees in response to blowing of the wind.

50. (New) The assembly of claim 48, further comprising a tension adjuster adapted for adjusting pivot tension of said cap, thereby controlling rotation of said sail and rib in response to blowing of the wind.

51. (New) The assembly of claim 47, and comprising an anchor located at the bottom end of said mast.

52. (New) The assembly of claim 47, and comprising at least one handle for gripping said mast.

53. (New) A sun shade assembly comprising:

a mast configured to extend upwardly from a supporting surface, and having a top end and a bottom end;

a pair of pivoted ribs pivotably attached proximate the top end of said mast, and configured to rotate relative to the supporting surface;

a sail having a proximal edge defining a channel sized and shaped to receive each of said pivoted ribs, and an unrestrained free edge adapted to unfurl in response to blowing of the wind;

a slider configured to move up and down said mast, and operatively actuating said pivoted ribs such:

(i) that raising said slider on said mast causes said pivoted ribs to open outwardly from a folded condition into an unfolded condition thereby unfolding said sail, such that when unfolded said sail unfurls in response to blowing of the wind and rotates together with said pivoted ribs to a direction of the blowing wind; and

(ii) lowering said slider on said mast causes said pivoted ribs to fold

downwardly into the folded condition adjacent said mast, such that said sail is folded for storage.

54. (New) A method of using a sunshade assembly, the method comprising:

extending a mast of the sunshade assembly upwardly from a supporting surface, the sunshade assembly further comprising a pair of pivoted ribs carried by the mast and configured to rotate relative to the supporting surface, and a sail having a proximal edge secured to each of the pivoted ribs and an unrestrained free edge opposite the proximate edge;

lifting the pivoted ribs outwardly from the mast at respective pivot points from a folded condition alongside the mast into an unfolded condition, such that in the unfolded condition the unrestrained free edge of the sail unfurls in response to blowing of the wind; and

when the sail is unfurled, enabling the sail and pivoted ribs to rotate together to a direction of the blowing wind.

55. (New) The method according to claim 54, and comprising adjustably controlling rotation of the sail and pivoted ribs in response to blowing of the wind.

56. (New) The method according to claim 54, and comprising enabling the sail and pivoted ribs to rotate together relative to the mast.

57. (New) The method according to claim 54, and comprising lowering the pivoted ribs

from the unfolded condition to the folded condition alongside the mast, thereby folding the sail for storage.

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/367,224	09/12/2023	Paul T. James	

CONFIRMATION NO. 9298

160172
Dogwood Patent and Trademark Law
4801 Glenwood Avenue
Suite 200
Raleigh, NC 27612

FORMALITIES LETTER

OC000000066640667

Date Mailed: 01/12/2024

NOTICE OF INCOMPLETE REPLY (REISSUE)

Filing Date Granted

The U.S. Patent and Trademark Office received your reply on 12/14/2023 to the (Notice) mailed 11/17/2023 and it has been entered into the application. The reply, however, is not a complete reply because all of the items required by the have not been received. See "Items Required to Avoid Abandonment" section below. A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application.

The period for reply continues to run from the date of the mailed 11/17/2023. Applicant must submit all required items and pay any fees required below within two months from the date of the to avoid abandonment. If the reply is submitted after two months from the date of the , extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). See "Time Period for Reply" section below.

Items Required to Avoid Abandonment:

The required items noted below SHOULD be filed along with any items required above.

The required items noted below SHOULD be filed along with any items required above. The filing date of this reissue application will be the date of receipt of the items required above.

- Assignee's statement under 37 CFR 3.73(c) establishing ownership of the patent is missing. 37 CFR 1.172 requires that all assignees consenting to the reissue application establish their ownership interest in the patent by filing in the reissue application a statement in accordance with 37 CFR 3.73(c).

Time Period for Reply:

Mail date of Notice: 11/17/2023

Last date that extension may be obtained: (Note: The petition and fee must be received by this date, or include a proper certificate of mailing under 37 CFR 1.8 with a date on or before this date, and extend the time to include this date.) 06/17/2024

The following table sets forth the possible extensions of time available, depending on when the reply and corresponding extension of time fee are received.

Length of Extension of Time	Fee under 37 CFR 1.17(a) effective March 19, 2013		
(response due on or before)	Undiscounted	Small Entity	Micro Entity
One Month (02/20/2024)	$220	$88	$44
Two Months (03/18/2024)	$640	$256	$128
Three Months (04/17/2024)	$1480	$592	$296
Four Months (05/17/2024)	$2320	$928	$464
Five Months (06/17/2024)	$3160	$1264	$632

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be addressed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

REPLY VIA ELECTRONIC FILING

A reply may be submitted via electronic filing only by registered users of the appropriate USPTO patent electronic filing system and must include:

- A separate document having the document description, "**Applicant response to Pre-Exam Formalities Notice**"; and
- the item(s) for which a reply period is set forth above.

For more information about electronic filing, contact the Patent Electronic Business Center (EBC) 1-866-217-9197 or visit https://www.uspto.gov/ebc

NOTE: If the reply is not being submitted electronically, a copy of this notice must be included.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/kjduncan/

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UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/367,224	09/12/2023	3636	700		20	2

CONFIRMATION NO. 9298

160172
Dogwood Patent and Trademark Law
4801 Glenwood Avenue
Suite 200
Raleigh, NC 27612

FILING RECEIPT

OC000000066640664

Date Mailed: 01/12/2024

Receipt is acknowledged of this reissue patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Paul T. James, Wrightsville Beach, NC;

Applicant(s)

Solbello, Inc., Wilmington, NC, Assignee (with 37 CFR 1.172 Interest);

Power of Attorney: The patent practitioners associated with Customer Number 160172

Domestic Priority data as claimed by applicant

This application is a REI of 17/417,739 06/23/2021 PAT 11,596,211

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 10/18/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/367,224**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No
**** MICRO ENTITY ****
Title

SELF-ADJUSTING SUN SHADE ASSEMBLY

Preliminary Class

135

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at http://www.uspto.gov/web/offices/pac/doc/general/index.html.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, http://www.stopfakes.gov. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER

Title 35, United States Code, Section 184

Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign AssetsControl, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

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PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/367,224

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	64
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	140
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	464
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	668

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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STATEMENT UNDER 37 CFR 3.73(c)

First Named Inventor/Patent Owner: Paul T. James

Application No./Patent No.: 18367224 Filed/Issue Date: 09/12/2023

Titled: SELF ADJUSTING SUN SHADE ASSEMBLY

Solbello, Inc., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that, for the patent application/patent identified above, it is (choose **one** of options 1, 2, 3 or 4 below):

1. ☑ The assignee of the entire right, title, and interest.

2. ☐ An assignee of less than the entire right, title, and interest (check applicable box):

   ☐ The extent (by percentage) of its ownership interest is _____%. Additional Statement(s) by the owners holding the balance of the interest must be submitted to account for 100% of the ownership interest.

   ☐ There are unspecified percentages of ownership. The other parties, including inventors, who together own the entire right, title and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

3. ☐ The assignee of an undivided interest in the entirety (a complete assignment from one of the joint inventors was made). The other parties, including inventors, who together own the entire right, title, and interest are:

   Additional Statement(s) by the owner(s) holding the balance of the interest must be submitted to account for the entire right, title, and interest.

4. ☐ The recipient, via a court proceeding or the like (*e.g.*, bankruptcy, probate), of an undivided interest in the entirety (a complete transfer of ownership interest was made). The certified document(s) showing the transfer is attached.

The interest identified in option 1, 2 or 3 above (not option 4) is evidenced by either (choose **one** of options A or B below):

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached*.

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached*.

2. From: _____ To: _____

   The document was recorded in the United States Patent and Trademark Office at

   Reel _____, Frame _____, or for which a copy thereof is attached*.

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STATEMENT UNDER 37 CFR 3.73(c)

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached*.

4. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached*.

5. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached*.

6. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel _____, Frame _____, or for which a copy thereof is attached*.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☑ *As required by 37 CFR 3.73(c)(1)(i), the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature	1.11.2024 Date
Paul T. James Printed or Typed Name	President/ Solbello, Inc. Title or Registration Number

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013). https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf

Routine uses of the information in this record may include disclosure to:

1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;

2) a federal, state, local, or international agency, in response to its request;

3) a contractor of the USPTO having need for the information in order to perform a contract;

4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;

5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;

6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;

7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;

8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));

9) the Office of Personnel Management (OPM) for personnel research purposes; and

10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

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REISSUE APPLICATION: CONSENT OF ASSIGNEE; STATEMENT OF NON-ASSIGNMENT

Docket Number (Optional)

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s)
Paul T. James

Patent Number	Date Patent Issued
11596211	03-07-2023

Title of Invention
Self-Adjusting Sun Shade Assembly

1. ☒ Filed herein is a statement under 37 CFR 3.73(c). (Form PTO/AIA/96)

2. ☐ Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.

One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee."

The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.

The assignee(s) owning an undivided interest in said original patent is/are
Solbello, Inc.

and the assignee(s) consents to the accompanying application for reissue.

Name of assignee (if assigned)/inventor (if not assigned)
Paul T. James

Signature	Date
	1.11.2024

Typed or printed name and title of person signing for assignee (if assigned)
Paul T. James, President/Solbello, Inc.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0033. Public burden for this form is estimated to average 6 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email informationCollection@uspto.gov. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. If filing this completed form by mail, send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

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ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, **Paul T. James**, (hereinafter "Assignor") has invented certain new and useful improvements described in the application(s) identified in Table 1.

AND, WHEREAS, **Solbello, Inc.**, having a place of business at 206 Causeway Dr. #279, Wrightsville Beach, NC 28480 (hereinafter "Assignee"), has acquired an interest in the application(s) identified in Table 1 by and through an employment or other agreement between Assignor and Assignee.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title and interest in and to the invention(s) and application(s), including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefore or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application(s) in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and

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is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with the assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these present, Assignor possesses full title to the invention and applications above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to Assignee or its representatives any facts known to him relating to said invention, to testify in any legal proceedings involving said invention, to execute any additional papers that may be requested to confirm the right of the Assignee, its representatives, successors, and assigns to secure patent or similar protection for the invention in all countries and to vest in the Assignee complete title to the invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

TABLE 1

Application No.	Filing Date	Title
62/892,700	8/28/2019	Unbrello, the Self-Adjusting Shade-Umbrella Alternative
PCT/US20/38920	6/22/2020	SELF-ADJUSTING SUN SHADE ASSEMBLY

Executed: 6/22/2020

DocuSigned by:
Paul T. James
A09DB3308SE048F...
Paul T. James (Assignor)

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**01/11/2024 03:35:47 PM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	63922885	FILING DATE	09/12/2023
CUSTOMER #	36829	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
37CFR 3.73C.pdf	3	Assignee showing of ownership per 37 CFR 3.73	321 KB
Reissue Application_Assignee Consent.pdf	2	Consent of Assignee accompanying the declaration	219 KB
Assignment.pdf	2	Assignee showing of ownership per 37 CFR 3.73	1403 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

37CFR 3.73C.pdf	C433CCE5A6C84239A408E4A72FA0ED225FD6BAAFEE6B8E6C5EC20F5DCC90540680364937 7A7E3F6C2B60E6AF867D5F33F85504C3F13AAC50D13BDA2C716BAE99
Reissue Application_Assignee Consent.pdf	AABD2BE57068F5C3CB58BF260E61D3E8080169BE2A5E98ABD4C4913BDED9A593330CD3B47F4A36929734E31348AD849828106A5A37EB2AE0640EFB3AC65BB430
Assignment.pdf	BCEEC639D6E26A816A6845A4D3E549E6AEB22E694CCB84A1193CD828D466772906B3F1682A5EAA0A812E5C3052D332163FBEE12C82B27087F43CE5C5410B0E0E

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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Doc Code: REIS.DECL

Document Description: Reissue Oath or Declaration

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REISSUE APPLICATION DECLARATION BY THE ASSIGNEE	Docket Number (optional)

I hereby declare that:

The residence and mailing address of the inventor or joint inventors are stated below.

Name of the Assignee:

Solbello, Inc.

I am authorized to act on behalf of the assignee (if the assignee is a juristic entity).

The entire title to the patent identified below is vested in said assignee, or if there are multiple assignees/owners, all assignees/owners have executed a Reissue Application Declaration to account for the entire title of the patent identified below.

Inventor Paul T. James

Residence: City	State	Country
Wrightsville Beach	NC	US

Mailing Address

1508 Radian Rd.

City	State	Zip	Country
Wilmington	NC	28405	US

☐ Additional inventors are named on separately numbered sheets attached hereto.

Patent Number	Patent Issue Date
11,596,211	March 7, 2023

I believe said inventor(s) to be the original inventor or original joint inventors of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention titled:

SELF-ADJUSTING SUN SHADE ASSEMBLY

the specification of which

☑ is attached hereto.

☐ was filed on _____ as reissue application number _____.

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

I believe the original patent to be wholly or partly inoperative or invalid, for the reasons described below.
(Check all boxes that apply.)

☐ by reason of a defective specification or drawing.

☑ by reason of the patentee claiming more or less than he had the right to claim in the patent.

☐ by reason of other errors.

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REISSUE APPLICATION DECLARATION BY THE ASSIGNEE	Docket Number (Optional)

At least one error upon which reissue is based is described below. If the reissue is a broadening reissue, a claim that the application seeks to broaden must be identified and the box below must be checked:

The patentee claimed less than they were entitled to claim and thus files this application for a broadening reissue. The patentee believes they are entitled to claim the invention without reciting, for example, support arms.

[Attach additional sheets, if needed.]

☑ **The application for the original patent was filed under 37 CFR 1.46 by the assignee of the entire interest.**

I hereby appoint:

☑ Practitioners associated with Customer Number: 160172

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Correspondence Address: Direct all communications about the application to:

☑ The address associated with Customer Number: 160172

OR

☐ Firm or Individual Name					
Address					
City		State		Zip	
Country					
Telephone		Email			

WARNING:

Petitioner/applicant is cautioned to avoid submitting personal information in documents filed in a patent application that may contribute to identity theft. Personal information such as social security numbers, bank account numbers, or credit card numbers (other than a check or credit card authorization form PTO-2038 submitted for payment purposes) is never required by the USPTO to support a petition or an application. If this type of personal information is included in documents submitted to the USPTO, petitioners/applicants should consider redacting such personal information from the documents before submitting them to the USPTO. Petitioner/applicant is advised that the record of a patent application is available to the public after publication of the application (unless a non-publication request in compliance with 37 CFR 1.213(a) is made in the application) or issuance of a patent. Furthermore, the record from an abandoned application may also be available to the public if the application is referenced in a published application or an issued patent (see 37 CFR 1.14). Checks and credit card authorization forms PTO-2038 submitted for payment purposes are not retained in the application file and therefore are not publicly available.

Signature	DocuSigned by: Paul T. James	Date (Optional)
Legal name of person signing	Paul T. James	
Address of Assignee	1508 Radian Rd., Wilmington, NC 28405	

DocuSign Envelope ID: EB1B64A5-9F54-4624-B93A-0354EFBC5083

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Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**12/14/2023 12:01:27 PM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	63612912	FILING DATE	09/12/2023
CUSTOMER #	160172	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
REISSUE_DECLARATION_.pdf	3	Reissue Oath or Declaration	2854 KB
160172_18367224_11-17-2023_REIS.CONSENT_.pdf	2	Consent of Assignee accompanying the declaration	1867 KB
160172_18367224_11-17-2023_R3.73_.pdf	2	Assignee showing of ownership per 37 CFR 3.73	1946 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

REISSUE_DECLARATION_.pdf	B963A39442A84E47F7CE6174B0496BE4A6CC1CE27B7A2CAB4028F4E07CCEB38A21362A65AD66A6337198A2571D1BB2CAB2168B9A48C276C3C93B163F1E2C1721
160172_18367224_11-17-2023_REIS.CONSENT_.pdf	CE315D5BEF0F1D9995DA6D7A52A275F38C22FB84167663DB529BF4698B62552863287ED97180F37864745213CDBD73FC97C26F8BEC935B7898BE25BFA5074D5A
160172_18367224_11-17-2023_R3.73_.pdf	999649DB568E28E6670AE8E80F3E9255908C2C923A810E61D8B6A260FACC3D68BEC64A7CB3C5AFD0EB4EA8016B3C87DA4B7864B0DB1FFD9BF575A8CC06F72928

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

DocuSign Envelope ID: 4ADEB62A-30DF-4E9C-A792-3A02CD82B279

PTO/SB/53 (09-07)
Approved for use through 01/31/2020. OMB 0651-0033
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REISSUE APPLICATION: CONSENT OF ASSIGNEE; STATEMENT OF NON-ASSIGNMENT

Docket Number (Optional)

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s)

Paul T. James

Patent Number	Date Patent Issued
11596211	3-7-2023

Title of Invention

Self-Adjusting Sun Shade Assembly

1. [✓] Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96)

2. [ ] Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.

One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee".

The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.

The assignee(s) owning an undivided interest in said original patent is/are Solbello, Inc., and the assignee(s) consents to the accompanying application for reissue.

Name of assignee/inventor (if not assigned)

Paul T. James

Signature	Date
DocuSigned by: [signature]	11/17/2023

Typed or printed name and title of person signing for assignee (if assigned)

Paul T. James, Owner Solbello, Inc.

This collection of information is required by 37 CFR 1.172. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PTO/SB/96 (07-18)
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STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Paul T. James

Application No./Patent No.: 18367224 Filed/Issue Date: 9-12-2023

Titled:

Solbello, Inc., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☑ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in
(The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 053002, Frame 0861, or a copy* is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To:

__The document was recorded in the United States Patent and Trademark Office at

Reel_____, Frame_____, or a copy* is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel_____, Frame_____, or a copy* is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel_____, Frame_____, or a copy* is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ashley D. Johnson/ 11-17-2023

Signature Date

Ashley D. Johnson 58482

Printed or Typed Name Title or Registration Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/367,224

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	64
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	140
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	464
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	668

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/367,224	09/12/2023	Paul T. James	

CONFIRMATION NO. 9298

160172
Dogwood Patent and Trademark Law
4801 Glenwood Avenue
Suite 200
Raleigh, NC 27612

FORMALITIES LETTER

OC000000065481331

Date Mailed: 12/11/2023

NOTICE OF INCOMPLETE REPLY (REISSUE)

Filing Date Granted

The U.S. Patent and Trademark Office received your reply on 12/01/2023 to the (Notice) mailed 11/17/2023 and it has been entered into the application. The reply, however, is not a complete reply because all of the items required by the have not been received. See "Items Required to Avoid Abandonment" section below. A complete reply must be timely filed to prevent ABANDONMENT of the above-identified application.

The period for reply continues to run from the date of the mailed 11/17/2023. Applicant must submit all required items and pay any fees required below within two months from the date of the to avoid abandonment. If the reply is submitted after two months from the date of the , extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). See "Time Period for Reply" section below.

Items Required to Avoid Abandonment:

The required items noted below SHOULD be filed along with any items required above.

The required items noted below SHOULD be filed along with any items required above. The filing date of this reissue application will be the date of receipt of the items required above.

- Consent of assignee is missing. 37 CFR 1.172 requires that a reissue oath/declaration be accompanied by the written consent of all assignees.
- Assignee's statement under 37 CFR 3.73(c) establishing ownership of the patent is missing. 37 CFR 1.172 requires that all assignees consenting to the reissue application establish their ownership interest in the patent by filing in the reissue application a statement in accordance with 37 CFR 3.73(c).

Time Period for Reply:

Mail date of Notice: 11/17/2023

Last date that extension may be obtained: (Note: The petition and fee must be received by this date, or include a proper certificate of mailing under 37 CFR 1.8 with a date on or before this date, and extend the time to include this date.) 06/17/2024

The following table sets forth the possible extensions of time available, depending on when the reply and corresponding extension of time fee are received.

Length of Extension of Time	Fee under 37 CFR 1.17(a) effective March 19, 2013		
(response due on or before)	Undiscounted	Small Entity	Micro Entity
One Month (02/20/2024)	$220	$88	$44
Two Months (03/18/2024)	$640	$256	$128
Three Months (04/17/2024)	$1480	$592	$296
Four Months (05/17/2024)	$2320	$928	$464
Five Months (06/17/2024)	$3160	$1264	$632

Replies must be received in the USPTO within the set time period or must include a proper Certificate of Mailing or Transmission under 37 CFR 1.8 with a mailing or transmission date within the set time period. For more information and a suggested format, see Form PTO/SB/92 and MPEP 512.

Replies should be addressed to:

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria VA 22313-1450

REPLY VIA ELECTRONIC FILING

A reply may be submitted via electronic filing only by registered users of the appropriate USPTO patent electronic filing system and must include:

- A separate document having the document description, "**Applicant response to Pre-Exam Formalities Notice**"; and
- the item(s) for which a reply period is set forth above.

For more information about electronic filing, contact the Patent Electronic Business Center (EBC) 1-866-217-9197 or visit https://www.uspto.gov/ebc

NOTE: If the reply is not being submitted electronically, a copy of this notice must be included.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at **(571) 272-4000** or **(571) 272-4200** or **1-888-786-0101**.

/kjduncan/

PTO/SB/81 (01-09)
Approved for use through 03/31/2021. OMB 0651-0035
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POWER OF ATTORNEY OR REVOCATION OF POWER OF ATTORNEY WITH A NEW POWER OF ATTORNEY AND CHANGE OF CORRESPONDENCE ADDRESS

Application Number	18367224
Filing Date	9/12/2023
First Named Inventor	Paul T. James
Title	SELF-ADJUSTING SUN SHADE ASSEMBLY
Art Unit	3636
Examiner Name	Noah Chandler Hawk
Attorney Docket Number	1500/2

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith: **36829**

OR

☐ I hereby appoint Practitioner(s) named below as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith:

Practitioner(s) Name	Registration Number

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number.

OR

☐ The address associated with Customer Number:

OR

☐	Firm or Individual Name				
Address					
City		State		Zip	
Country					
Telephone		Email			

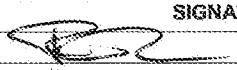
I am the:

☐ Applicant/Inventor.

OR

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) (Form PTO/SB/96) submitted herewith or filed on December 1,2023

SIGNATURE of Applicant or Assignee of Record

Signature		Date	12/1/23
Name	Paul T. James	Telephone	
Title and Company	President/Solbello, Inc.		

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☐ *Total of _____ forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**12/01/2023 04:18:33 PM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Jeffrey Schwartz
PATENT CENTER #	63461425	FILING DATE	09/12/2023
CUSTOMER #	160172	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 2

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
1500_2_Power of Attorney_12.2023.pdf	1	Power of Attorney	1813 KB
1500_2_Statement_Under_37_CFR 3.73b_12.2023.pdf	3	Assignee showing of ownership per 37 CFR 3.73	515 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)
1500_2_Power of Attorney_12.2023.pdf	73930F91B82CBCBECAFAD9A5D0971E8E178350FB4862A9CA3D59018C386AF68C9EAF6C7E7C1895B49FCE8D1B8DFF857456624C78A24E0F9EA3F6F332AA960D1B

1500_2_Statement_Under_37_CFR 3.73b_12.2023.pdf	644620A6C1ACCB4E7205FEED05250527A602BDE0DF03D4A5F0F39B78A307165143DFDBAB1A53580D0493F510BB22E28AAACE1FF54E095E7E06D4378E92CB004C

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/SB/96 (11-18)
Approved for use through XX/XX/XXXX. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Paul T. James

Application No./Patent No.: 18367224 Filed/Issue Date: 09/12/2023

Titled: SELF-ADJUSTING SUN SHADE ASSEMBLY

Solbello, Inc., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ■ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ■ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel_____, Frame_____, or a copy* is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at
Reel_____, Frame_____, or a copy* is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

■ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.]

The undersigned (whose ~~title is~~ supplied below) is authorized to act on behalf of the assignee.

_____ 12/1/23

Signature Date

Paul T. James President / Solbello, Inc.

Printed or Typed Name Title or Registration Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Administrative Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

DocuSign Envelope ID: 16707C6D-8504-4195-9EB6-A0B75B24FA4E

ASSIGNMENT OF RIGHTS

WHEREAS, the undersigned, **Paul T. James**, (hereinafter "Assignor") has invented certain new and useful improvements described in the application(s) identified in Table 1.

AND, WHEREAS, **Solbello, Inc.**, having a place of business at 206 Causeway Dr. #279, Wrightsville Beach, NC 28480 (hereinafter "Assignee"), has acquired an interest in the application(s) identified in Table 1 by and through an employment or other agreement between Assignor and Assignee.

However, in the avoidance of doubt and as confirmation of the already acquired interest by Assignee, NOW, THEREFORE, To Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and by these presents does hereby sell, assign, transfer, and convey unto the Assignee, its successors and assigns, his entire right, title and interest in and to the invention(s) and application(s), including the right to sue for past infringements and any other prior occurring rights, provided any such rights exist, and in and to any and all domestic and foreign patent applications filed on the invention, and in and to any and all continuations, continuations-in-part, or divisions thereof, and in and to any and all Letters Patent of the United States of America, and all foreign countries or reissues thereof which may be granted therefore or thereon, for the full end of the term for which said Letters Patent may be granted, together with his right to claim the priority of said application(s) in all foreign countries in accordance with the International Convention, the same to be held and enjoyed by said Assignee, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor further assigns to Assignee the right to claim entitlement and/or priority to any applications that entitlement or priority may be claimed for this or any later filed application, including the assignment of any provisionals or other priority documents to which the inventions claim priority to. The assignment of the right to claim entitlement and/or priority is executed *nunc pro tunc* and

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is considered effective as of the filing date of the earliest application to which priority and/or entitlement is claimed.

Assignor hereby requests that said Letters Patent be issued in accordance with the assignment.

Assignor further covenants and agrees that, at the time of the execution and delivery of these present, Assignor possesses full title to the invention and applications above-mentioned, and that he has the unencumbered right and authority to make this assignment.

Assignor further covenants and agrees, and likewise binds his heirs, legal representatives and assigns, to promptly communicate to Assignee or its representatives any facts known to him relating to said invention, to testify in any legal proceedings involving said invention, to execute any additional papers that may be requested to confirm the right of the Assignee, its representatives, successors, and assigns to secure patent or similar protection for the invention in all countries and to vest in the Assignee complete title to the invention and Letters Patent, without further compensation, but at the expense of said Assignee, its successors, assigns and other legal representatives.

TABLE 1

Application No.	Filing Date	Title
62/892,700	8/28/2019	Unbrello, the Self-Adjusting Shade-Umbrella Alternative
PCT/US20/38920	6/22/2020	SELF-ADJUSTING SUN SHADE ASSEMBLY

Executed: 6/22/2020

DocuSigned by:
Paul T. James
AD9DB33065E048F...
Paul T. James (Assignor)

DocuSign Envelope ID: 4ADEB62A-30DF-4E9C-A792-3A02CD82B279

PTO/SB/53 (09-07)
Approved for use through 01/31/2020. OMB 0651-0033
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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REISSUE APPLICATION: CONSENT OF ASSIGNEE; STATEMENT OF NON-ASSIGNMENT	Docket Number (Optional)

This is part of the application for a reissue patent based on the original patent identified below.

Name of Patentee(s)

Paul T. James

Patent Number	Date Patent Issued
11596211	3-7-2023

Title of Invention

Self-Adjusting Sun Shade Assembly

1. ☑ Filed herein is a statement under 37 CFR 3.73(b). (Form PTO/SB/96)

2. ☐ Ownership of the patent is in the inventor(s), and no assignment of the patent is in effect.

One of boxes 1 or 2 above must be checked. If multiple assignees, complete this form for each assignee. If box 2 is checked, skip the next entry and go directly to "Name of Assignee".

The written consent of all assignees and inventors owning an undivided interest in the original patent is included in this application for reissue.

The assignee(s) owning an undivided interest in said original patent is/are Solbello, Inc., and the assignee(s) consents to the accompanying application for reissue.

Name of assignee/inventor (if not assigned)

Paul T. James

Signature	Date
DocuSigned by: [signature]	11/17/2023

Typed or printed name and title of person signing for assignee (if assigned)

Paul T. James, Owner Solbello, Inc.

This collection of information is required by 37 CFR 1.172. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

DocuSign Envelope ID: 4ADEB62A-30DF-4E9C-A792-3A02CD82B279

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

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ELECTRONIC PAYMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**11/17/2023 10:42:28 AM Z ET**	**-**

Title of Invention

SELF-ADJUSTING SUN SHADE ASSEMBLY

Application Information

APPLICATION TYPE	Utility - Reissue	PATENT #	-
CONFIRMATION #	9298	FILED BY	Ashley Johnson
PATENT CENTER #	63293691	AUTHORIZED BY	-
CUSTOMER #	160172	FILING DATE	09/12/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Paul T. James

Payment Information

PAYMENT METHOD	PAYMENT TRANSACTION ID	PAYMENT AUTHORIZED BY
CARD / 8737	**E2023AGA42595010**	**Ashley Johnson**

FEE CODE	DESCRIPTION	ITEM PRICE($)	QUANTITY	ITEM TOTAL($)
3051	SURCHARGE- LATE FILING FEE, SEARCH FEE, EXAMINATION FEE, INVENTOR'S OATH OR DECLARATION, OR APPLICATION FILED WITHOUT AT LEAST ONE CLAIM OR BY REFERENCE	32.00	1	32.00
			TOTAL AMOUNT:	**$32.00**

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d)

and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

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ELECTRONIC ACKNOWLEDGEMENT RECEIPT

APPLICATION #	RECEIPT DATE / TIME	ATTORNEY DOCKET #
18/367,224	**11/17/2023 10:42:28 AM Z ET**	**-**

Title of Invention

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PATENT CENTER #	63293691	FILING DATE	09/12/2023
CUSTOMER #	160172	FIRST NAMED INVENTOR	Paul T. James
CORRESPONDENCE ADDRESS	-	AUTHORIZED BY	-

Documents

TOTAL DOCUMENTS: 3

DOCUMENT	PAGES	DESCRIPTION	SIZE (KB)
NFMP_RESP.pdf	2	Transmittal Letter	87 KB
Assignee-consent.pdf	2	Consent of Assignee accompanying the declaration	392 KB

Warning: The PDF file has been signed with a digital signature and the legal effect of the document will be based on the contents of the file not the digital signature.

3.73b_PJ.pdf	2	Miscellaneous Incoming Letter	438 KB

Digest

DOCUMENT	MESSAGE DIGEST(SHA-512)

NFMP_RESP.pdf	F8812217718233B3D468EB57B6D46AF9E03A7EDE2DF7F9547C9FAF542CAB729C52A3167A2B53D5F2D71693B78F71B61B4F052F07DFE599F9866848BB2E4FA105
Assignee-consent.pdf	E4B8D1133B27620AFEE3CA8FA9131CE6F98F9B86A921C29D1982BBD618356DF72586471464C23DAB11691F7A9726A3802E0FD90050804ACDA21DAD9D449244F8
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PTO/SB/96 (07-18)
Approved for use through 11/30/2020. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Paul T. James

Application No./Patent No.: 18367224 Filed/Issue Date: 9-12-2023

Titled:

Solbello, Inc., a Corporation

(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.

states that it is:

1. ☑ the assignee of the entire right, title, and interest in;

2. ☐ an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is _____ %); or

3. ☐ the assignee of an undivided interest in the entirety of (a complete assignment from one of the joint inventors was made)

the patent application/patent identified above, by virtue of either:

A. ☑ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 053002, Frame 0861, or a copy* is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as follows:

1. From: _____ To:

_The document was recorded in the United States Patent and Trademark Office at

Reel_____, Frame_____, or a copy* is attached.

2. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel_____, Frame_____, or a copy* is attached.

3. From: _____ To: _____

The document was recorded in the United States Patent and Trademark Office at

Reel_____, Frame_____, or a copy* is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet(s).

☐ *As required by 37 CFR 3.73(b)(1)(i), if a copy/copies is/are attached, the documentary evidence of the chain of title from the original owner to the assignee was, or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.

[NOTE: A separate copy (*i.e.*, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, to record the assignment in the records of the USPTO. See MPEP 302.]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

/Ashley D. Johnson/ 11-17-2023

Signature Date

Ashley D. Johnson 58482

Printed or Typed Name Title or Registration Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Paul T. James	)	Group Art Unit: Not Yet Assigned
	)	
Serial No.: 18/367,224	)	Examiner: Not Yet Assigned
	)	
Filed: 9-12-2023	)	
	)	
Confirmation No.: 9298	)	

For: SELF-ADJUSTING SUN SHADE ASSEMBLY

* * * * * * * * * * *

RESPONSE TO NOTICE TO FILE MISSING PARTS

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

This paper is responsive to the Notice to File Missing Parts mailed today, November 17, 2023. Favorable consideration is requested in view of the following Remarks.

REMARKS

In the Notice to File Missing Parts, the Patent Office is requiring a consent of Assignee and statement under 37 CFR 3.73. Both documents are filed herewith along with the fee.

Respectfully submitted,

Date: 11-17-2023

/Ashley D. Johnson/

Ashley D. Johnson
Attorney for Applicant
Registration No. 58,482

Dogwood Patent and Trademark Law
4801 Glenwood Avenue, Suite 200
Raleigh, NC 27612
Telephone (919) 576-7612

Customer No. 160172

PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-875

Application or Docket Number: 18/367,224

APPLICATION AS FILED - PART I

FOR	(Column 1) NUMBER FILED	(Column 2) NUMBER EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY FEE($)
BASIC FEE (37 CFR 1.16(a), (b), or (c))	N/A	N/A	N/A			N/A	64
SEARCH FEE (37 CFR 1.16(k), (i), or (m))	N/A	N/A	N/A			N/A	140
EXAMINATION FEE (37 CFR 1.16(o), (p), or (q))	N/A	N/A	N/A			N/A	464
TOTAL CLAIMS (37 CFR 1.16(i))	20 minus 20 =	* 0			OR	x =	0
INDEPENDENT CLAIMS (37 CFR 1.16(h))	3 minus 3 =	*				x =	0
APPLICATION SIZE FEE (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $310 ($155 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).						0
MULTIPLE DEPENDENT CLAIM PRESENT (37 CFR 1.16(j))							0
* If the difference in column 1 is less than zero, enter "0" in column 2.			TOTAL			TOTAL	668

APPLICATION AS AMENDED - PART II

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	SMALL ENTITY RATE($)	SMALL ENTITY ADDITIONAL FEE($)	OR	OTHER THAN SMALL ENTITY RATE($)	OTHER THAN SMALL ENTITY ADDITIONAL FEE($)
AMENDMENT A	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

		(Column 1) CLAIMS REMAINING AFTER AMENDMENT		(Column 2) HIGHEST NUMBER PREVIOUSLY PAID FOR	(Column 3) PRESENT EXTRA	RATE($)	ADDITIONAL FEE($)	OR	RATE($)	ADDITIONAL FEE($)
AMENDMENT B	Total (37 CFR 1.16(i))	*	Minus	**	=	x =		OR	x =	
	Independent (37 CFR 1.16(h))	*	Minus	***	=	x =		OR	x =	
	Application Size Fee (37 CFR 1.16(s))									
	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))							OR		
						TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	

* If the entry in column 1 is less than the entry in column 2, write "0" in column 3.

** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter "20".

*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter "3".

The "Highest Number Previously Paid For" (Total or Independent) is the highest found in the appropriate box in column 1.

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APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/367,224	09/12/2023	Paul T. James	

CONFIRMATION NO. 9298

160172
Dogwood Patent and Trademark Law
4801 Glenwood Avenue
Suite 200
Raleigh, NC 27612

FORMALITIES LETTER

OC000000063414117

Date Mailed: 11/17/2023

NOTICE TO FILE MISSING PARTS OF REISSUE APPLICATION

Filing Date Granted

An application number and filing date have been accorded to the above-identified reissue application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- Consent of assignee is missing. 37 CFR 1.172 requires that a reissue oath/declaration be accompanied by the written consent of all assignees.
- Assignee's statement under 37 CFR 3.73(c) establishing ownership of the patent is missing. 37 CFR 1.172 requires that all assignees consenting to the reissue application establish their ownership interest in the patent by filing in the reissue application a statement in accordance with 37 CFR 3.73(c).
- Surcharge as set forth in 37 CFR 1.16(f) has not been received.

  The surcharge is due for any one of:
  - late submission of the basic filing fee, search fee, or examination fee,
  - late submission of inventor's oath or declaration,
  - filing an application that does not contain at least one claim on filing, or
  - submission of an application filed by reference to a previously filed application.

SUMMARY OF FEES DUE:

The fee(s) required (including the fees noted above) are as follows. Micro entity discount is in effect.

- $**32** surcharge.
- $(**0**) previous unapplied payment amount.
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A reply may be submitted via electronic filing only by registered users of the appropriate USPTO patent electronic filing system and must include:

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/kjduncan/

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UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	TOT CLAIMS	IND CLAIMS
18/367,224	09/12/2023	3636	668		20	2

CONFIRMATION NO. 9298

FILING RECEIPT

160172
Dogwood Patent and Trademark Law
4801 Glenwood Avenue
Suite 200
Raleigh, NC 27612

OC000000063414095

Date Mailed: 11/17/2023

Receipt is acknowledged of this reissue patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Paul T. James, Wrightsville Beach, NC;

Applicant(s)

Solbello, Inc., Wilmington, NC, Assignee (with 37 CFR 1.172 Interest);

Power of Attorney: The patent practitioners associated with Customer Number 160172

Domestic Priority data as claimed by applicant

This application is a REI of 17/417,739 06/23/2021 PAT 11,596,211

Foreign Applications for which priority is claimed (You may be eligible to benefit from the Patent Prosecution Highway program at the USPTO. Please see http://www.uspto.gov for more information.) - None.
Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

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Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

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The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/367,224**

Projected Publication Date: None, application is not eligible for pre-grant publication

Non-Publication Request: No

Early Publication Request: No
**** MICRO ENTITY ****
Title

SELF-ADJUSTING SUN SHADE ASSEMBLY

Preliminary Class

135

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

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Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

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Kathi Vidal

Kathi Vidal
Under Secretary of Commerce for Intellectual Property and
Director of the United States Patent and Trademark Office

Derrick Brent
Deputy Under Secretary of Commerce for Intellectual Property and
Deputy Director of the United States Patent and Trademark Office

Electronic Acknowledgement Receipt

EFS ID:	48575431
Application Number:	18367224
International Application Number:	
Confirmation Number:	9298
Title of Invention:	SELF-ADJUSTING SUN SHADE ASSEMBLY
First Named Inventor/Applicant Name:	Paul T. James
Customer Number:	160172
Filer:	Ashley Darden Johnson
Filer Authorized By:	
Attorney Docket Number:	
Receipt Date:	12-SEP-2023
Filing Date:	
Time Stamp:	16:13:39
Application Type:	Utility under 35 USC 111(a)

Payment information:

Submitted with Payment	no

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Preliminary Amendment	Solbello_PA.pdf	145499 2265bb5ae800dba4666ddeae236800f707934c4c	no	12

Warnings:

Information:	
Total Files Size (in bytes):	145499

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If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

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New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Reissue Application No._____(TBD)	
Title: SELF-ADJUSTING SUN SHADE ASSEMBLY	
Filing Date: 2020 June 22	Confirmation No.: 1047
Patent No. 11,596,211	Examiner: Noah Chandler Hawk
Patent Filing Date: 2021 June 22	Group Art Unit: 3636
Patent Grant Date: 2023 March 7	Inventor: Paul T. James
Attorney Docket No 255/2 RE	

PRELIMINARY AMENDMENT

To the Commissioner:

Applicant respectfully requests entry of the instant preliminary amendment in this application for the reissue of U.S. Patent No. 11,596,211.

IN THE SPECIFICATION:

Please amend the paragraph after the heading "CROSS-REFERENCE TO RELATED APPLICATIONS" at lines 6-10 of column 1 of U.S. Patent No. 11,596,211:

This is an application for the reissue of U.S. Patent No. 11,596,211, which granted on March 7, 2023 from U.S. Patent Application No. 17/417,739, filed June 22, 2020, and which ~~The present application~~ claims the benefit of U.S. Provisional Patent Application No. 62/892,700, filed August 28, 2019, the entire content of which is incorporated by reference herein.

IN THE CLAIMS:

1. (Currently Amended) A sun shade assembly comprising:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast; and

~~at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and~~

an anchor operably connected to the second end of the mast;

wherein the pivot cap, ribs, and slider~~, and support arms~~ are configured to rotate about the mast in response to blowing of the wind.

2. (Original) The assembly of claim 1, wherein the pivot cap rotates about the mast at an angle of about 0-360 degrees.

3. (Original) The assembly of claim 1, wherein the ribs are configured at an angle of greater than 180 degrees relative to each other.

4. (Original) The assembly of claim 1, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

5. (Original) The assembly of claim 1, wherein the slider is configured as a collar that fits around the exterior circumference of the mast.

6. (Original) The assembly of claim 1, wherein the anchor is releasably attached to the second end of the mast.

7. (Original) The assembly of claim 1, wherein the sail channel comprises one or more apertures to facilitate insertion of the ribs into the channel.

8. (Currently Amended) The assembly of claim 1, wherein the sail channel comprises one or more apertures ~~to allow direct contact between each rib and a corresponding support arm~~.

9. (Original) The assembly of claim 1, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

10. (Original) The assembly of claim 1, wherein the sail has a top face and a bottom face and wherein at least one of the top or bottom faces comprises a coating.

11. (Original) The assembly of claim 1, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

12. (Original) The assembly of claim 1, wherein the mast comprises at least one handle for gripping the mast.

13. (Original) The assembly of claim 1, further comprising a tension adjuster that adjusts rotation of the pivot cap about the mast.

14. (Currently Amended) The assembly of claim 13, wherein the tension adjuster is configured to permit the pivot cap, slider, <u>and</u> ribs~~, and support arms~~ to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

15. (Currently Amended) A method of using a sunshade, the method comprising:

positioning the anchor of a sun shade assembly in a support surface, wherein the sun shade assembly comprises:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast; and

~~at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and~~

an anchor operably connected to the second end of the mast;

wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

16. (Original) The method of claim 15, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

17. (Original) The method of claim 15, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

18. (Original) The method of claim 15, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

19. (Currently Amended) The method of claim 15, wherein the sunshade assembly further comprises a tension adjuster that adjusts rotation of the pivot cap about the mast, and

wherein the method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, ~~support arms,~~ slider, and sail relative to the non-movable mast.

20. (Currently Amended) The method of claim 19, wherein the tension adjuster can be adjusted to allow the pivot cap, slider, and ribs~~, and support arms~~ to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

REMARKS

Specification Amendments

The first paragraph of the patent is amended to state that this is a reissue application and to refer to the original patent. No new matter has been added.

Claim Amendments

The above listing of the claims indicates that not all original claims 1-20 have been amended.

Independent claim 1 has been amended to broaden the claimed assembly to comprise a pair of ribs, a sail, a mast, and an anchor, removing the limitation that the assembly comprises "at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast". No new matter is believed to have been added.

Claim 8 has been amended to broaden the assembly to recite that the sail channel comprises one or more apertures, removing the limitation "to add direct contact between each rib and a corresponding support arm." No new matter is believed to have been added.

Claim 14 has been amended to broaden the assembly to recite that the tension adjuster is configured to permit the pivot cap, slider, and ribs to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween. The amendment removes the limitation that the tension adjuster is configured to permit the support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween. No new matter is believed to have been added.

Claim 15 has been broadened to broaden the claimed method to include positioning the anchor of a sunshade in a support surface, wherein the sun shade assembly comprises a pair of ribs, a sail, a mast, and an anchor. The limitation that the sun shade assembly includes "at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the

support arm is attached to a slider configured to move up and down the mast" has been removed from claim 15. No new matter is believed to have been added.

Claim 19 has been amended to broaden the method to recite adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, slider, and sail relative to the non-movable mast. The amendment removes the limitation of adjusting the tension adjuster to achieve a desired amount of rotation of the support arms relative to the non-movable mast. No new matter has been added.

Claim 20 has been amended to broaden the method to recite that the tension adjuster of the sun shade assembly is configured to permit the pivot cap, slider, and ribs to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween. The amendment removes the limitation that the tension adjuster is configured to permit the support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween. No new matter is believed to have been added.

Support for Claim Amendments

Claim 1: column 1, lines 50-60 ("The assembly comprises a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap. The assembly further includes a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge. The assembly includes a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast") and column 1, line 66, through column 2, line 2 ("The assembly comprises an anchor operably connected to the second end of the mast. The pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind"). Further support is given in Figs. 2d-2f, all illustrating a pair of ribs (element 10) without an associated pair of support arms (element 15); Fig. 3a illustrating a sun shade assembly with a pair of ribs (element 10), a mast (element 30), a pivot cap (element 40) operatively connected at the first end of the mast, and lacking a pair of ribs (element 10); Fig. 5a illustrating a sun shade assembly mast (element 30) including a length (element 51) between first end (element 31) and second end (element 32) of the mast, that lacks a pair

of ribs (element 10); and Fig. 10e, illustrating a sun shade assembly comprising a pair of ribs (element 10), a mast (element 30), a pivot cap (element 40) attached at a first end of each rib, a sail (element 20).

Claim 8: Support can be found in the limitations of claim 8 as originally filed ("The assembly of claim 1, wherein the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm"); column 2, lines 33-35 ("In some embodiments, the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm"); and Fig. 8d, illustrating sail (element 20), that includes apertures (elements 91 and 92); column 9, line 65 through column 10, line 1 ("In some embodiments, each channel includes one or more apertures. For example, each channel can include apertures 91 sized and shaped to allow each rib to be inserted into channel 65.").

Claim 14: Support can be found in the limitations of claim 14 as originally filed ("The assembly of claim 13, wherein the tension adjuster is configured to permit the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween"); column 2, lines 24-27 ("In some embodiments, the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween"); column 8, lines 62-66 ("The disclosed assembly further includes tension adjuster 25 that allows a user to adjust the tension on the pivot cap relative to the mast easily and safely. In this way, a user can alter the amount of rotation ribs 10, support arms 15 and slider 45 have about mast 30 in response to wind conditions"); and column 9, lines 3-17 ("As described above, the pivot cap (and attached ribs, slider, and support arms) can freely rotate about the mast in response to the wind blowing. The tension adjuster can be tightened as desired by the user (e.g., when the wind is shifting back and forth) to stop or limit rotation of the pivot cap (and ribs, support arm, and slider) about the mast to maintain a more balanced assembly. For example, in some embodiments, the tension adjuster can be loosened to allow the pivot cap, ribs, support arms, and slider to freely rotate (e.g., 360 degrees) about the mast. In other embodiments, the pivot cap, ribs, slider, and support arms have a more limited freedom to rotate (e.g., it takes a

stronger gust of wind to rotate). In some embodiments, the tension adjuster can be fully tightened such that the ribs, slider, and support arms cannot rotate relative to the mast").

Claim 15: column 1, lines 50-60 ("The assembly comprises a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap. The assembly further includes a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge. The assembly includes a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast") and column 1, line 66, through column 2, line 2 ("The assembly comprises an anchor operably connected to the second end of the mast. The pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind"). Further support is given in Figs. 2d-2f, all illustrating a pair of ribs (element 10) without an associated pair of support arms (element 15); Fig. 3a illustrating a sun shade assembly with a pair of ribs (element 10), a mast (element 30), a pivot cap (element 40) operatively connected at the first end of the mast, and lacking a pair of ribs (element 10); Fig. 5a illustrating a sun shade assembly mast (element 30) including a length (element 51) between first end (element 31) and second end (element 32) of the mast, that lacks a pair of ribs (element 10); and Fig. 10e, illustrating a sun shade assembly comprising a pair of ribs (element 10), a mast (element 30), a pivot cap (element 40) attached at a first end of each rib, a sail (element 20).

Claim 19: Support can be found in the limitations of claim 19 as originally filed ("The method of claim 15, wherein the sunshade assembly further comprises a tension adjuster that adjusts rotation of the pivot cap about the mast, and wherein the method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, support arms, slider, and sail relative to the non-movable mast"); column 2, lines 24-27 ("In some embodiments, the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween"); column 8, lines 62-66 ("The disclosed assembly further includes tension adjuster 25 that allows a user to adjust the tension on the pivot cap relative to the mast easily and safely. In this way, a user can alter the amount of rotation ribs 10, support arms 15 and slider 45 have about mast 30 in

response to wind conditions"); and column 9, lines 3-17 ("As described above, the pivot cap (and attached ribs, slider, and support arms) can freely rotate about the mast in response to the wind blowing. The tension adjuster can be tightened as desired by the user (e.g., when the wind is shifting back and forth) to stop or limit rotation of the pivot cap (and ribs, support arm, and slider) about the mast to maintain a more balanced assembly. For example, in some embodiments, the tension adjuster can be loosened to allow the pivot cap, ribs, support arms, and slider to freely rotate (e.g., 360 degrees) about the mast. In other embodiments, the pivot cap, ribs, slider, and support arms have a more limited freedom to rotate (e.g., it takes a stronger gust of wind to rotate). In some embodiments, the tension adjuster can be fully tightened such that the ribs, slider, and support arms cannot rotate relative to the mast").

Claim 20: Support can be found in the limitations of claim 20 as originally filed ("The method of claim 19, wherein the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween"); column 2, lines 24-27 ("In some embodiments, the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween"); column 8, lines 62-66 ("The disclosed assembly further includes tension adjuster 25 that allows a user to adjust the tension on the pivot cap relative to the mast easily and safely. In this way, a user can alter the amount of rotation ribs 10, support arms 15 and slider 45 have about mast 30 in response to wind conditions"); and column 9, lines 3-17 ("As described above, the pivot cap (and attached ribs, slider, and support arms) can freely rotate about the mast in response to the wind blowing. The tension adjuster can be tightened as desired by the user (e.g., when the wind is shifting back and forth) to stop or limit rotation of the pivot cap (and ribs, support arm, and slider) about the mast to maintain a more balanced assembly. For example, in some embodiments, the tension adjuster can be loosened to allow the pivot cap, ribs, support arms, and slider to freely rotate (e.g., 360 degrees) about the mast. In other embodiments, the pivot cap, ribs, slider, and support arms have a more limited freedom to rotate (e.g., it takes a stronger gust of wind to rotate). In some embodiments, the tension adjuster can be fully tightened such that the ribs, slider, and support arms cannot rotate relative to the mast").

Conclusion

If the Examiner has any concerns about this application, or if the undersigned can assist in expediting the allowance of the application, the Examiner is invited to call the undersigned attorney.

Respectfully submitted,

Date: August 30, 2023

By: /Ashley D. Johnson/
Ashley D. Johnson
Reg. No. 58482

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Application Number	Filed Herewith
Filing Date	Filed Herewith
First Named Inventor	Paul T. James
Title	SELF-ADJUSTING SUN SHADE ASSEMBLY
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	

SIGNATURE of Applicant or Patent Practitioner

Signature	/Ashley D. Johnson/	Date (Optional)	
Name	Ashley D. Johnson	Registration Number	58482
Title (if Applicant is a juristic entity)			
Applicant Name (if Applicant is a juristic entity)			

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Solbello, Inc.

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☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)

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Name	Paul T. James		
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US011596211B2

(12) **United States Patent**
James

(10) **Patent No.: US 11,596,211 B2**
(45) **Date of Patent: Mar. 7, 2023**

(54) **SELF-ADJUSTING SUN SHADE ASSEMBLY**

(71) Applicant: **Solbello, Inc.**, Wrightsville Beach, NC (US)

(72) Inventor: **Paul T. James**, Wrightsville Beach, NC (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 160 days.

(21) Appl. No.: **17/417,739**

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PCT Pub. Date: **Mar. 4, 2021**

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Related U.S. Application Data

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(51) **Int. Cl.**

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A45B 25/02	(2006.01)
A45B 25/06	(2006.01)
A45B 25/10	(2006.01)
A45B 25/18	(2006.01)

(52) **U.S. Cl.**
CPC ***A45B 23/00*** (2013.01); ***A45B 25/02*** (2013.01); ***A45B 25/06*** (2013.01); ***A45B 25/10*** (2013.01); ***A45B 25/18*** (2013.01); *A45B 2023/0093* (2013.01); *A45B 2025/105* (2013.01)

(58) **Field of Classification Search**
CPC A45B 23/00; E04H 15/44
See application file for complete search history.

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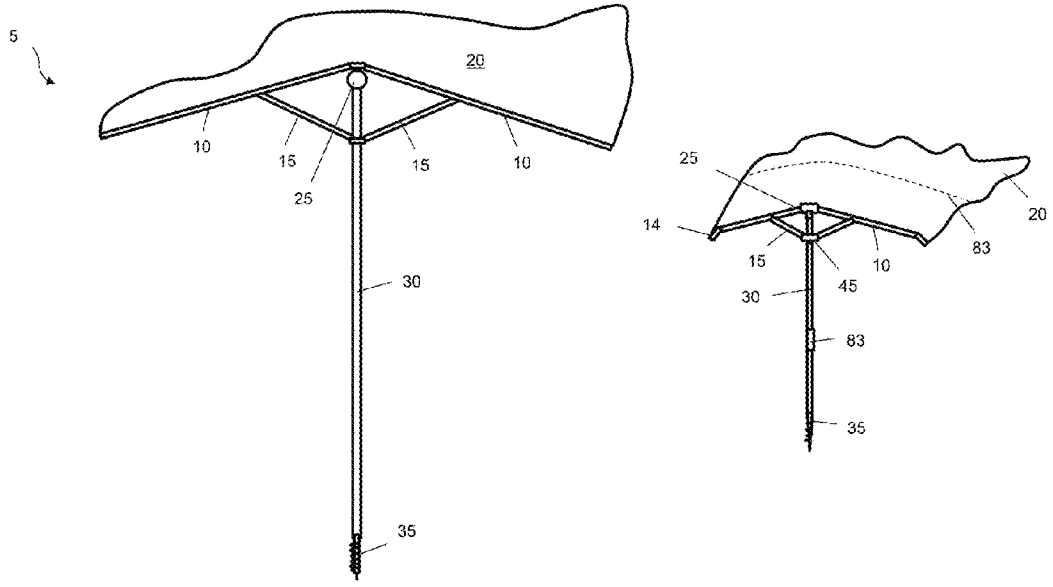
(Continued)

Primary Examiner — Noah Chandler Hawk
(74) *Attorney, Agent, or Firm* — Ashley D. Johnson; Dogwood Patent and Trademark Law

(57) **ABSTRACT**

The presently disclosed subject matter is directed to a sun shade assembly. Particularly, the assembly includes a sail that releasably attaches to a pair of ribs, providing shade to the user. At least one support arm can be used to reinforce the ribs. A mast provides height to the assembly and includes an anchor that allows the assembly to be secured into a support surface (e.g., sand). The ribs and support arms rotate about the mast, thereby self-adjusting the direction of sail in response to the wind blowing. The assembly further includes a tension adjuster that can be tightened or loosed to control the rotation of the ribs and support arms in response to wind conditions.

20 Claims, 17 Drawing Sheets



(56) **References Cited**

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Solbello, Inc.

I am authorized to act on behalf of the assignee (if the assignee is a juristic entity).

The entire title to the patent identified below is vested in said assignee, or if there are multiple assignees/owners, all assignees/owners have executed a Reissue Application Declaration to account for the entire title of the patent identified below.

Inventor Paul T. James

Residence: City	State	Country
Wrightsville Beach	NC	US

Mailing Address

1508 Radian Rd.

City	State	Zip	Country
Wilmington	NC	28405	US

☐ Additional Inventors are named on separately numbered sheets attached hereto.

Patent Number 11,596,211	Patent Issue Date March 7, 2023

I believe said inventor(s) to be the original inventor or original joint inventors of the subject matter which is described and claimed in said patent, for which a reissue patent is sought on the invention titled:

SELF-ADJUSTING SUN SHADE ASSEMBLY

the specification of which

☑ is attached hereto.

☐ was filed on _____ as reissue application number _____.

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[Attach additional sheets, if needed.]

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Signature DocuSigned by: Paul T. James	Date (Optional)
Legal name of person signing Paul T. James	
Address of Assignee 1508 Radian Rd., Wilmington, NC 28405	

DocuSign Envelope ID: EB1B64A5-9F54-4624-B93A-0354EFBC5083

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PTO/SB/08a (02-18)
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(Not for submission under 37 CFR 1.99)

Application Number	17417739
Filing Date	2020-06-22
First Named Inventor	Paul T. James
Art Unit	
Examiner Name	Noah Chandler Hawk
Attorney Docket Number	254/3 UTIL

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	2	11219286	B2	2022-01-11	Brian Cox	E04H 15/58

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	2	20120291830	A1	2012-11-22	Charles Crimi	04H 15/58 135/117
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)		
	Application Number	17417739
	Filing Date	2020-06-22
	First Named Inventor	Paul T. James
	Art Unit	
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	Attorney Docket Number	254/3 UTIL

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Examiner Signature		Date Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[1] See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. [2] Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). [3] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [4] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. [5] Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number	17417739
Filing Date	2020-06-22
First Named Inventor	Paul T. James
Art Unit	
Examiner Name	Noah Chandler Hawk
Attorney Docket Number	254/3 UTIL

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☒ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

See attached certification statement.

The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Ashley D. Johnson/	Date (YYYY-MM-DD)	
Name/Print	Ashley D. Johnson	Registration Number	58482

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

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Doc Code: MES.GIB
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PTO/SB/15A (07-14)

CERTIFICATION OF MICRO ENTITY STATUS
(GROSS INCOME BASIS)

Application Number or Control Number (if applicable):	Patent Number (if applicable):
Filed Herewith	
First Named Inventor:	**Title of Invention:**
Paul T. James	SELF-ADJUSTING SUN SHADE ASSEMBLY

The applicant hereby certifies the following—

(1) **SMALL ENTITY REQUIREMENT –** The applicant qualifies as a small entity as defined in 37 CFR 1.27.

(2) **APPLICATION FILING LIMIT –** Neither the applicant nor the inventor nor a joint inventor has been named as the inventor or a joint inventor on more than four previously filed U.S. patent applications, excluding provisional applications and international applications under the Patent Cooperation Treaty (PCT) for which the basic national fee under 37 CFR 1.492(a) was not paid, and also excluding patent applications for which the applicant has assigned all ownership rights, or is obligated to assign all ownership rights, as a result of the applicant's previous employment.

(3) **GROSS INCOME LIMIT ON APPLICANTS AND INVENTORS –** Neither the applicant nor the inventor nor a joint inventor, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986 (26 U.S.C. 61(a)), exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.

(4) **GROSS INCOME LIMIT ON PARTIES WITH AN "OWNERSHIP INTEREST" –** Neither the applicant nor the inventor nor a joint inventor has assigned, granted, or conveyed, nor is under an obligation by contract or law to assign, grant, or convey, a license or other ownership interest in the application concerned to an entity that, in the calendar year preceding the calendar year in which the applicable fee is being paid, had a gross income, as defined in section 61(a) of the Internal Revenue Code of 1986, exceeding the "Maximum Qualifying Gross Income" reported on the USPTO Web site at http://www.uspto.gov/patents/law/micro_entity.jsp which is equal to three times the median household income for that preceding calendar year, as most recently reported by the Bureau of the Census.

SIGNATURE by an authorized party set forth in 37 CFR 1.33(b)

Signature	DocuSigned by: Paul T. James				
Name	Paul T. James				
Date	8/31/2023	Telephone		Registration No.	

☐ There is more than one inventor and I am one of the inventors who are jointly identified as the applicant. The required additional certification form(s) signed by the other joint inventor(s) are included with this form.

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REISSUE APPLICATION FEE TRANSMITTAL FORM

Docket Number (Optional)

Application as Filed – Part 1

	(1) Claims in Patent	(2) Claims Filed in Reissue Application	(3) Number Extra	Micro Entity Rate ($)	Micro Entity Fee ($)	Small Entity Rate ($)	Small Entity Fee ($)	Undiscounted Rate ($)	Undiscounted Fee ($)
Total Claims (37 CFR 1.16(i))	(A) 20	(B) 20	* 0 =	x =	0	x =		x =	
Ind. Claims (37 CFR 1.16(h))	(C) 2	(D) 2	** 0 =	x =	0	x =		x =	
Application Size Fee (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $420 ($210 for small entity, $105 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				0				
	Filing Fee (37 CFR 1.16(e))				128.00				
	Search Fee (37 CFR 1.16(n))				280.00				
	Examination Fee (37 CFR 1.16(r))				464.00				
	Total Filing Fee				872.00				

Application as Amended – Part 2

	(1) Claims Remaining After Amendment	(2) Highest Number Previously Paid For	(3) Extra Claims Present	Micro Entity Rate ($)	Micro Entity Fee ($)	Small Entity Rate ($)	Small Entity Fee ($)	Undiscounted Rate ($)	Undiscounted Fee ($)
Total Claims (37 CFR 1.16(i))	*** 20 -	**** 20	= 0	x =	0	x =		x =	
Ind. Claims (37 CFR 1.16(h))	*** 2 -	***** 2	= 0	x =	0	x =		x =	
Application Size Fee (37 CFR 1.16(s))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is $420 ($210 for small entity, $105 for micro entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).				0				
			Total Additional Fee						

* Enter (B) – 20, or enter "0" if (B) is less than 20.
** Enter (D) – minus 3, or enter "0" if (D) is less than 3.
*** After any cancellation of claims.
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☐ Applicant asserts small entity status. See 37 CFR 1.27.

☑ Applicant certifies micro entity status. See 37 CFR 1.29.
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/Ashley D. Johnson/
Signature

8-31-2023
Date

Ashley D. Johnson
Typed or Printed Name

58482
Registration Number, if applicable

9195767612
Telephone Number

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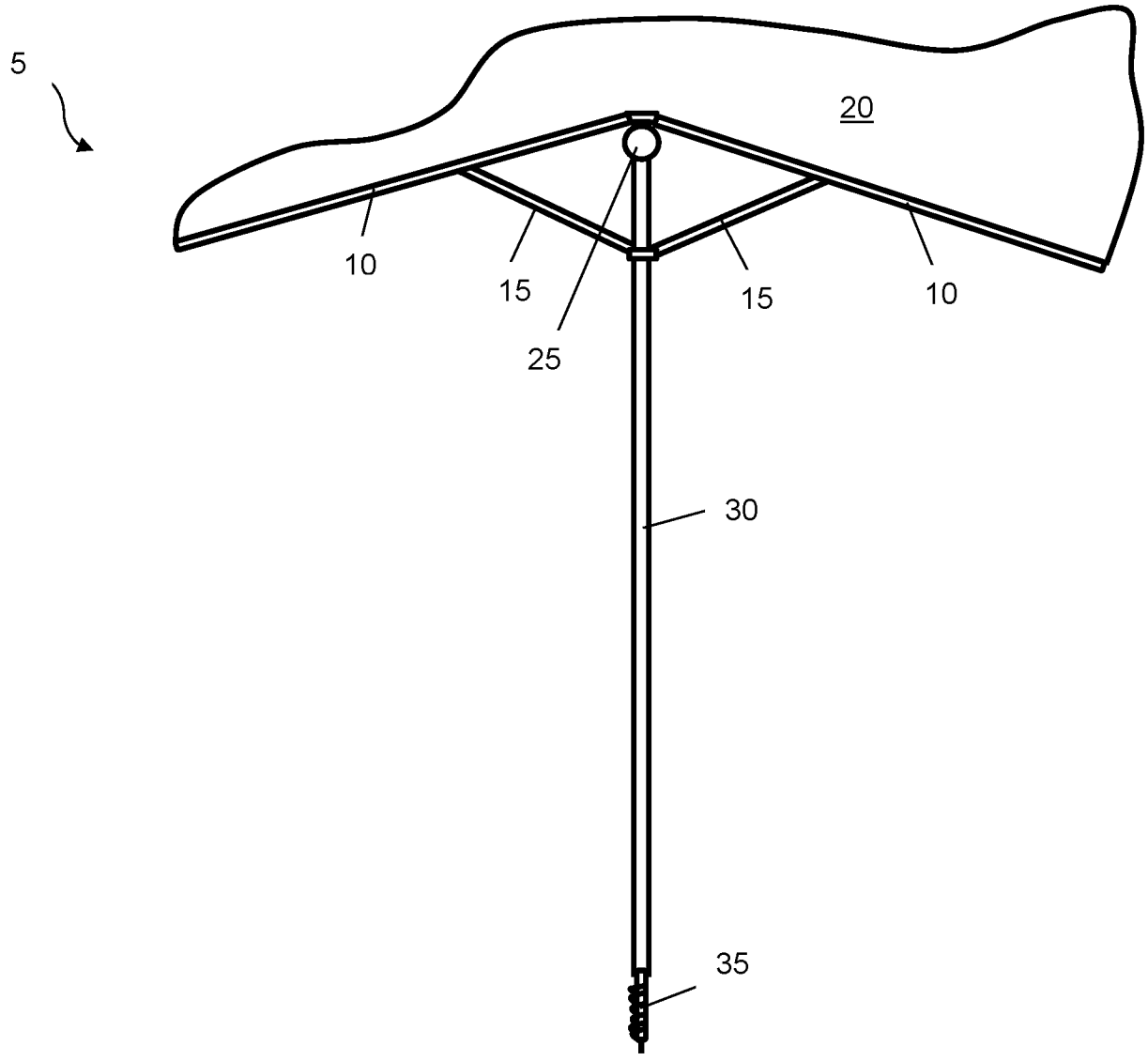


Fig. 1

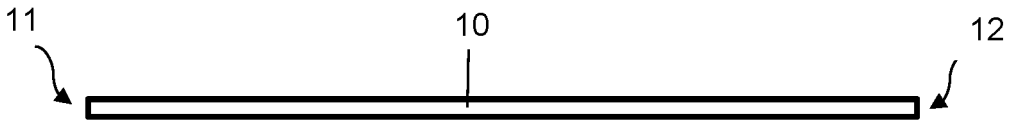


Fig. 2a

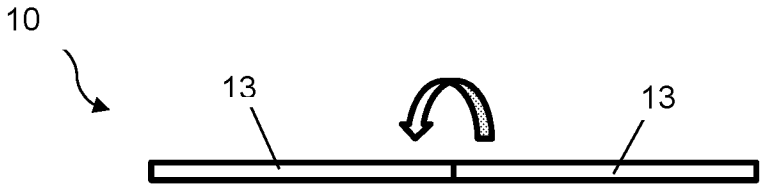


Fig. 2b



Fig. 2c

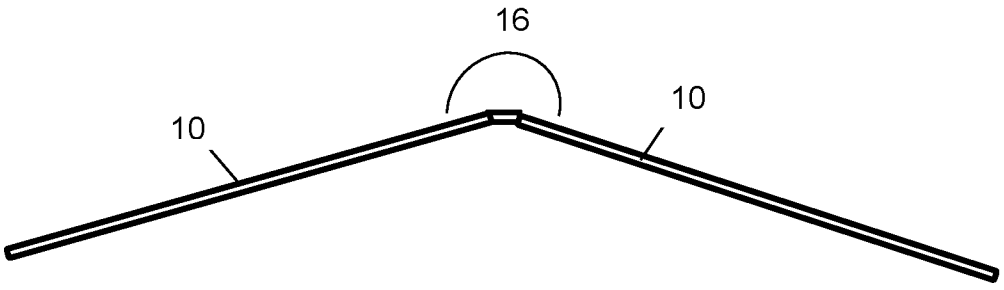


Fig. 2d

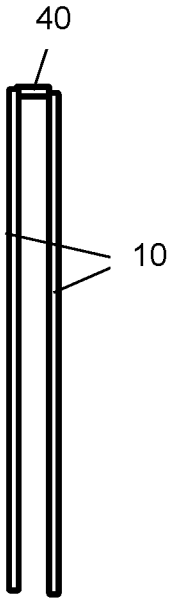


Fig. 2e

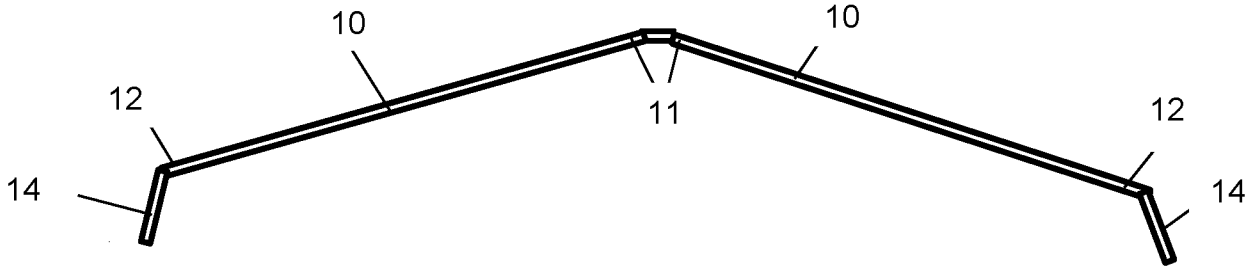


Fig. 2f

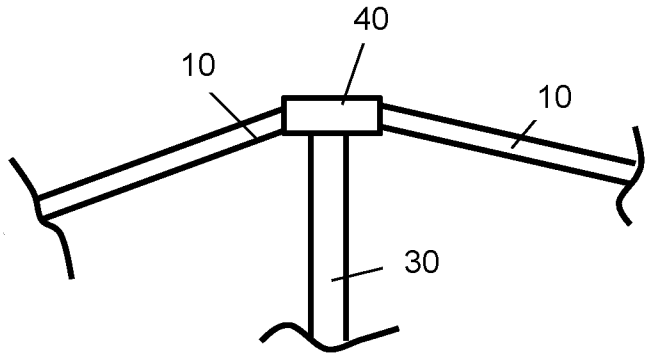


Fig. 3a

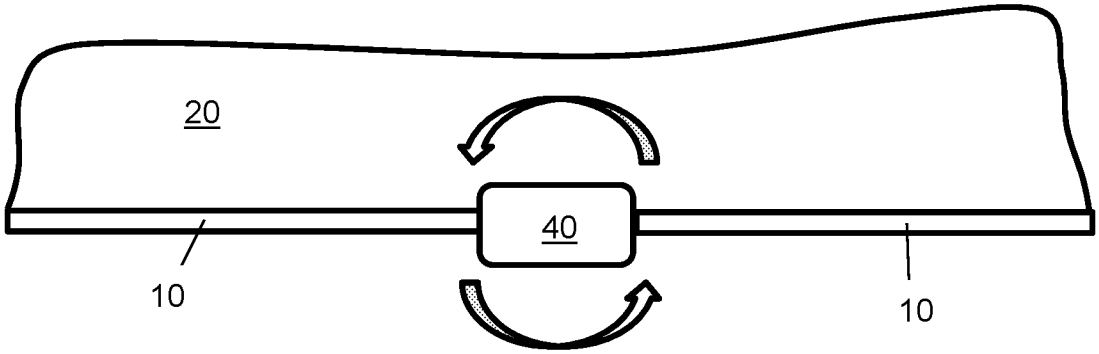


Fig. 3b

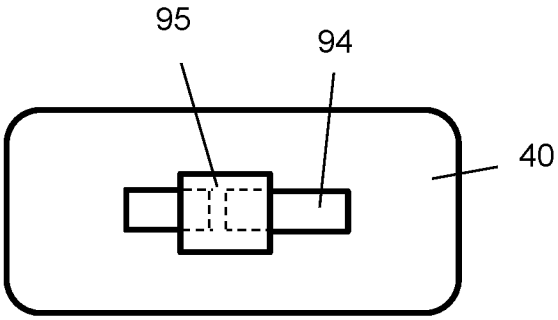


Fig. 3c

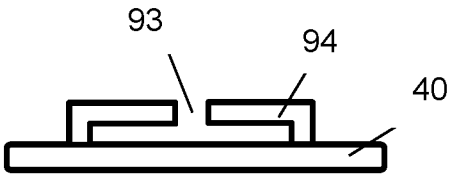


Fig. 3d

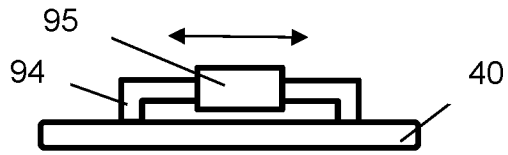


Fig. 3e

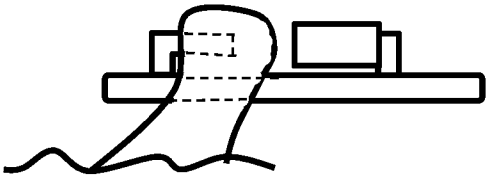


Fig. 3f

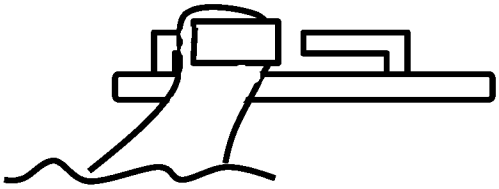


Fig. 3g

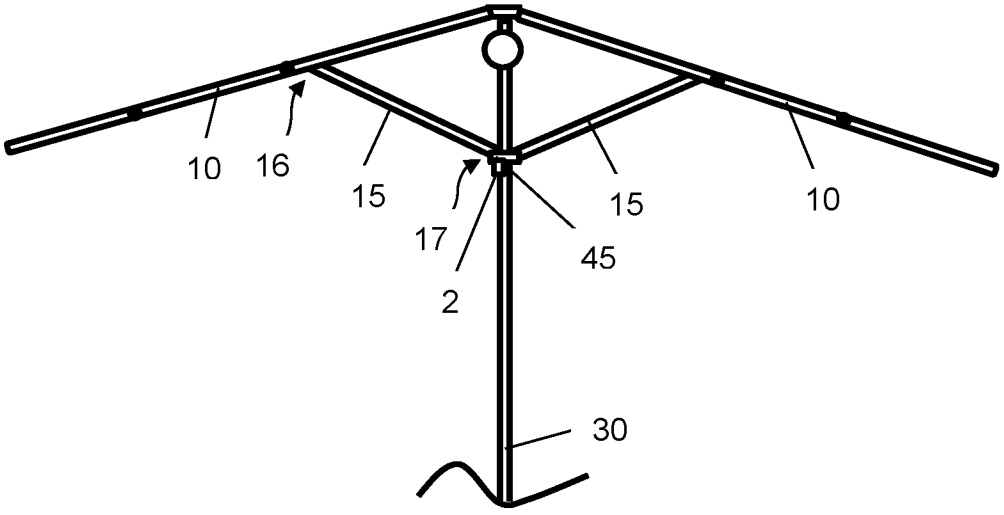


Fig. 4a

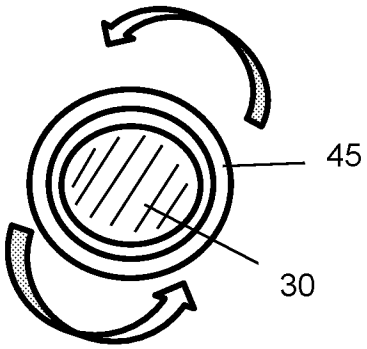


Fig. 4b

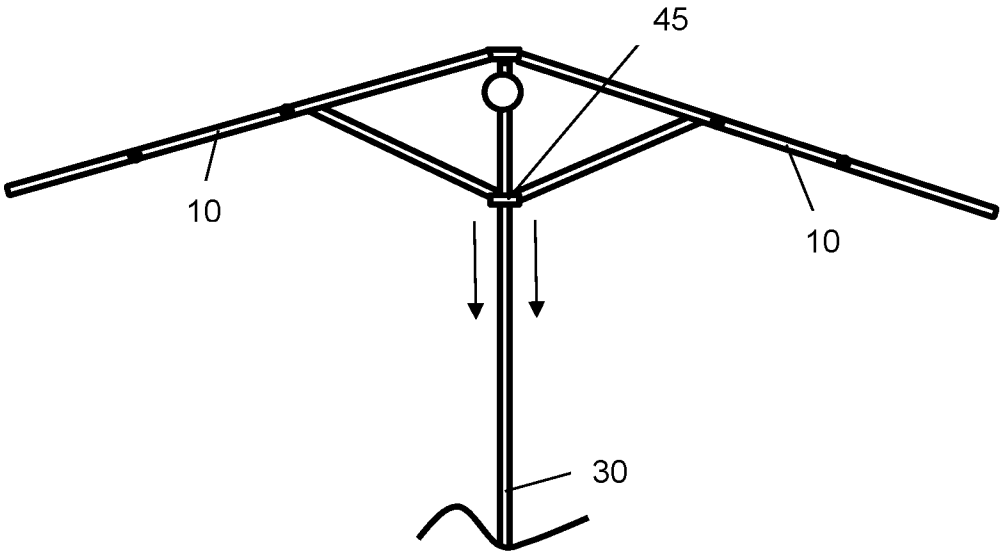


Fig. 4c

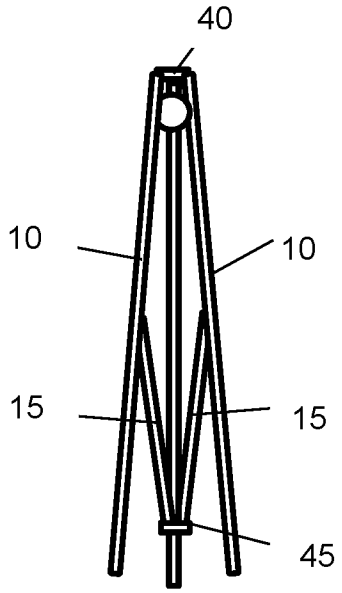


Fig. 4d

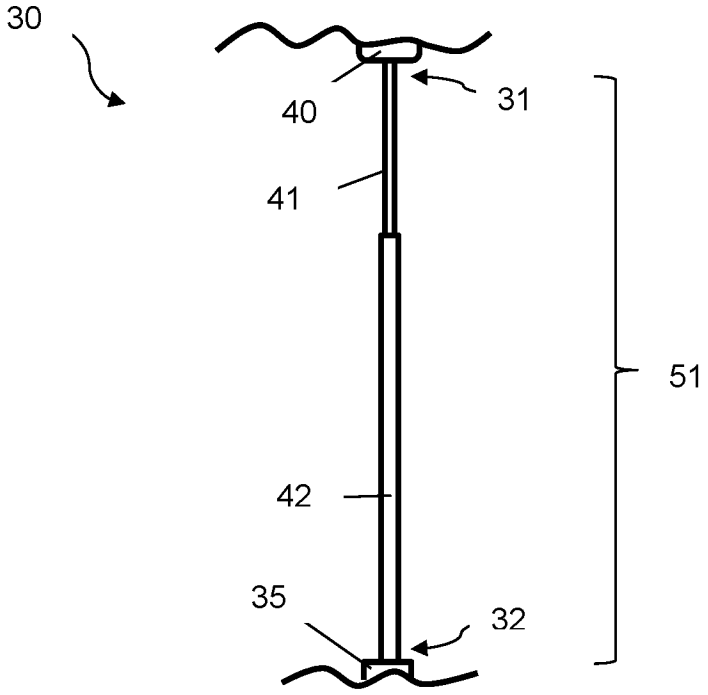


Fig. 5a

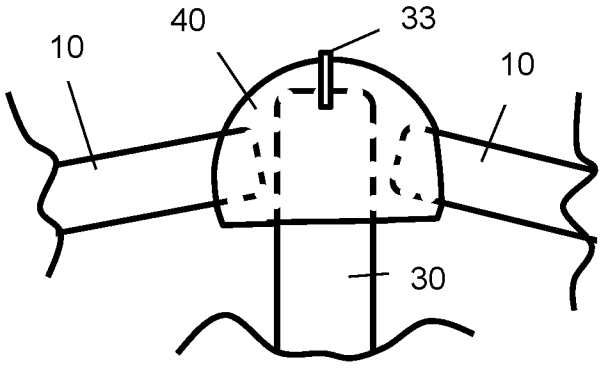


Fig. 5b

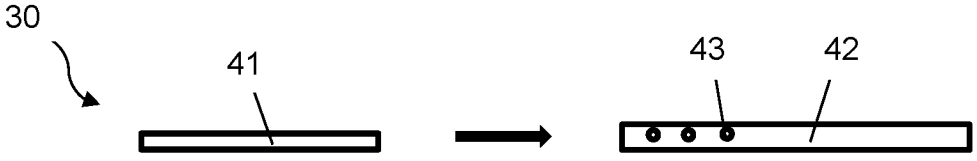


Fig. 5c

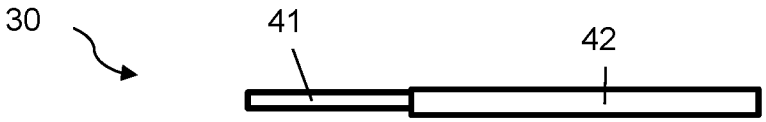


Fig. 5d

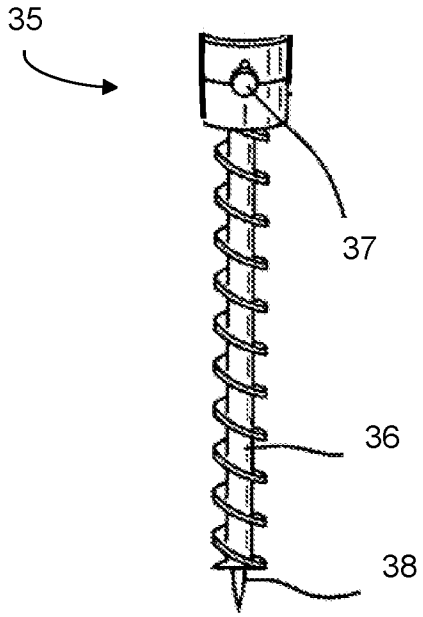


Fig. 6

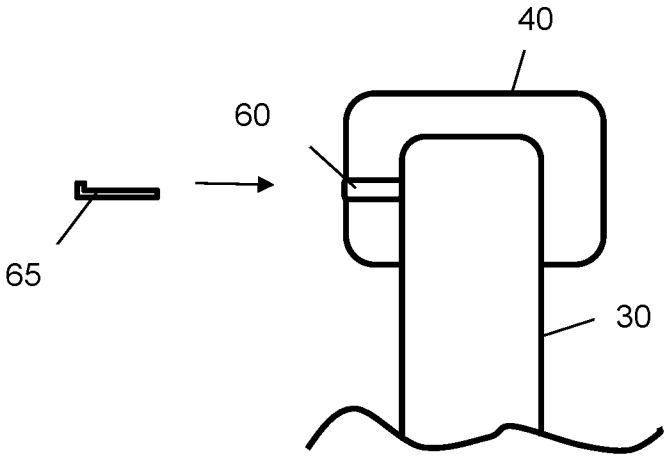


Fig. 7a

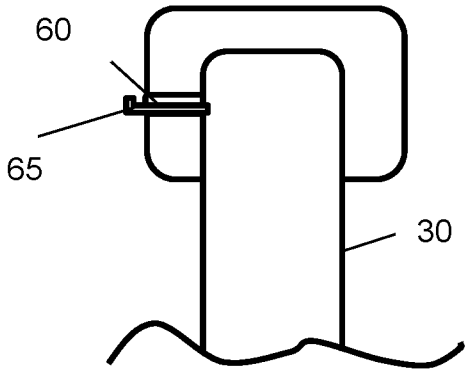


Fig. 7b

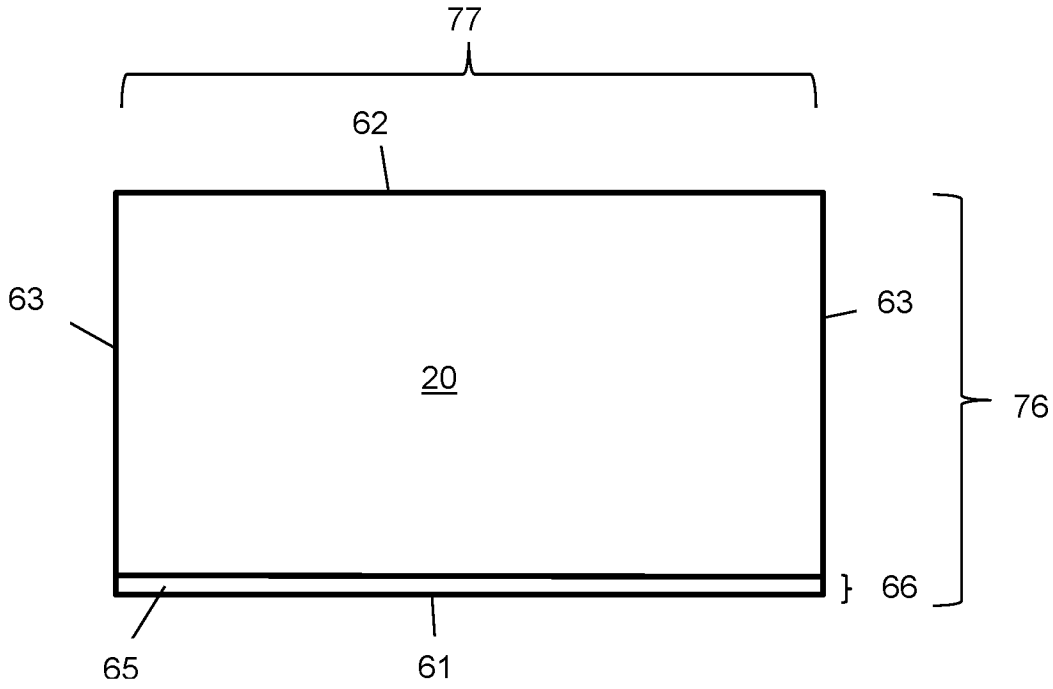


Fig. 8a

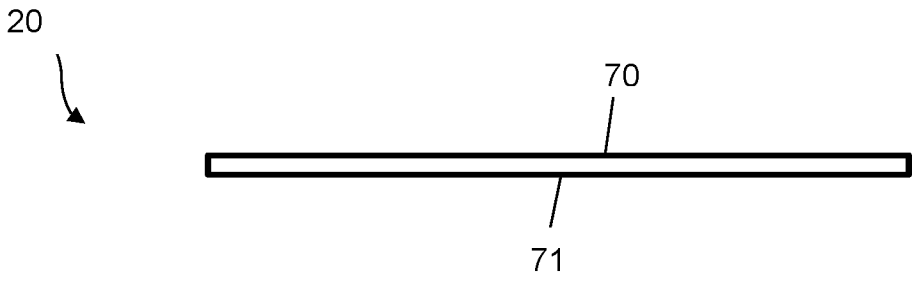


Fig. 8b

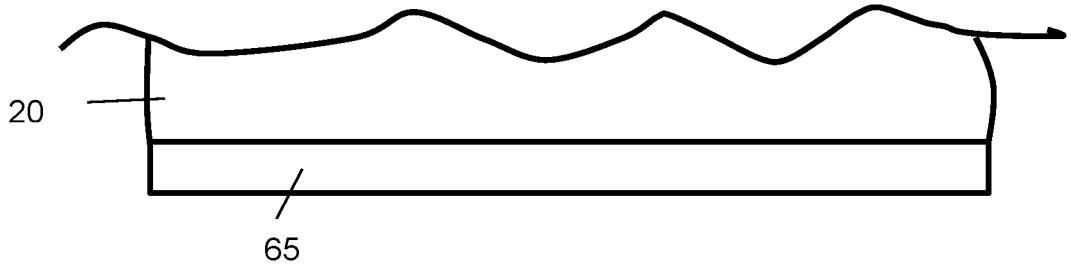


Fig. 8c

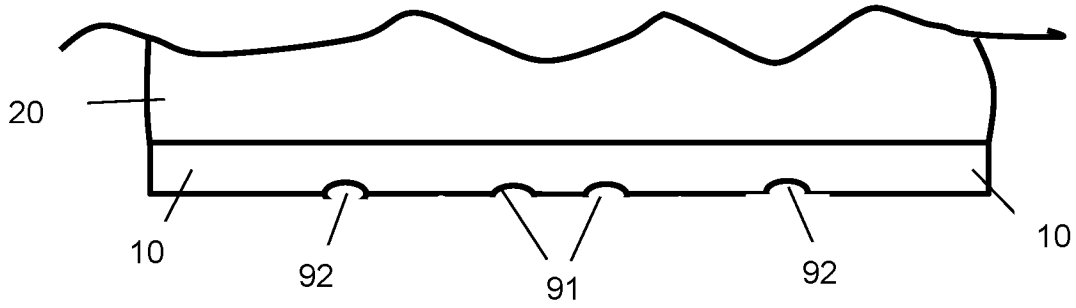


Fig. 8d

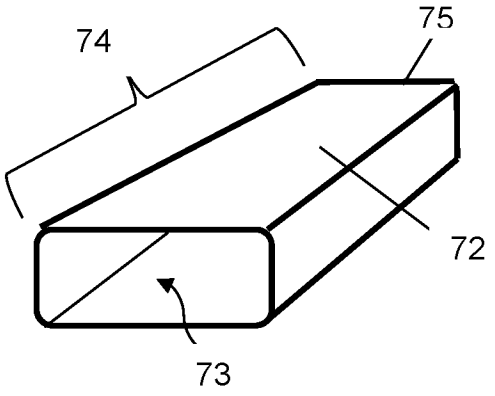


Fig. 8e

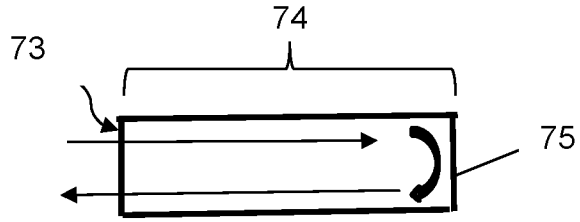


Fig. 8f

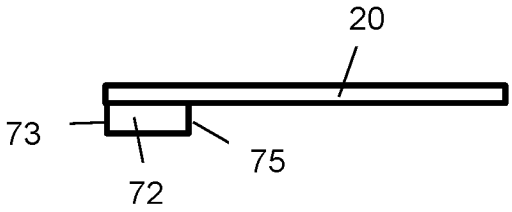


Fig. 8g

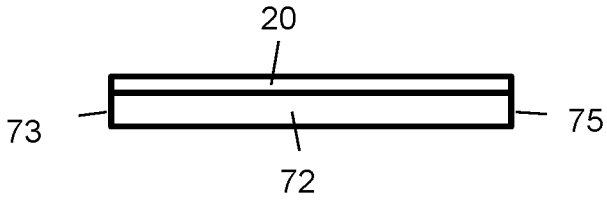


Fig. 8h

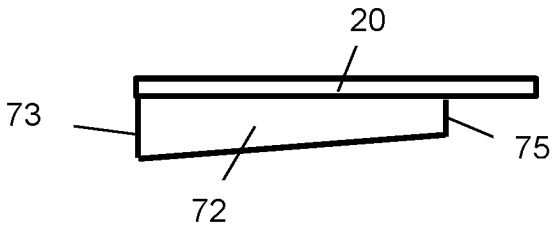


Fig. 8i

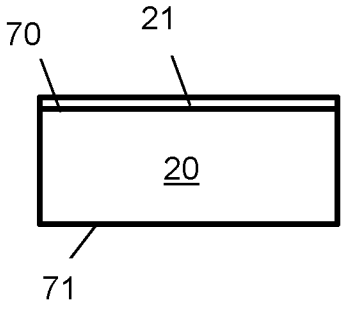


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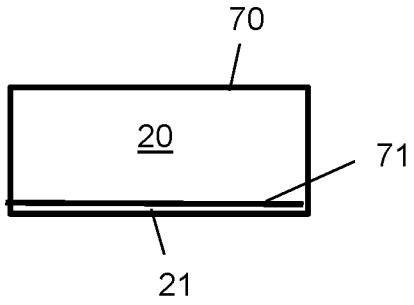


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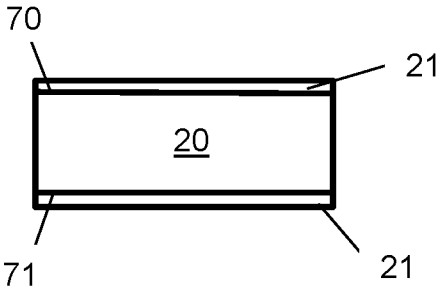


Fig. 9c

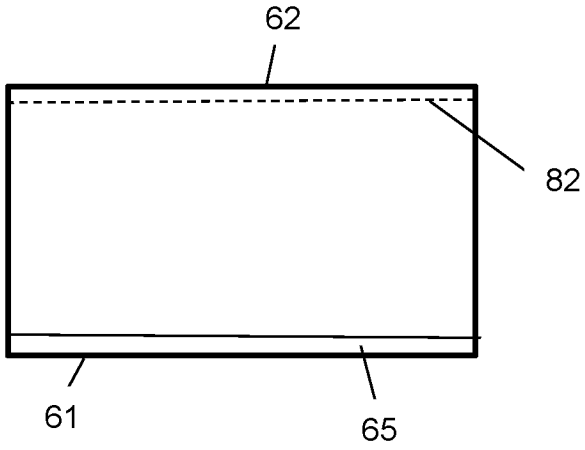


Fig. 9d

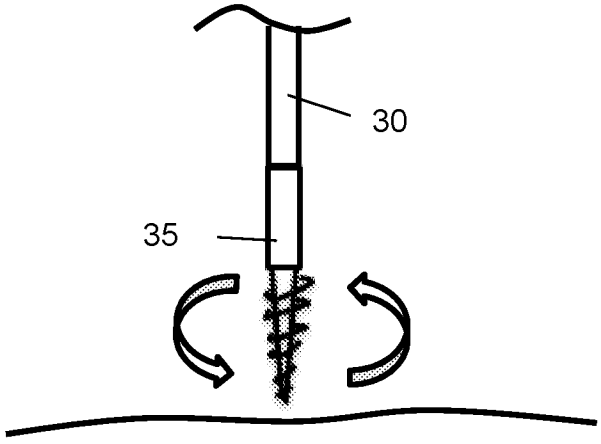


Fig. 10a

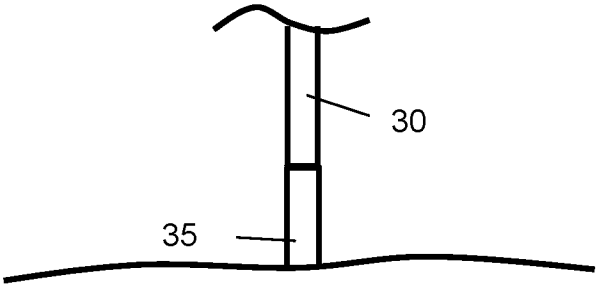


Fig. 10b

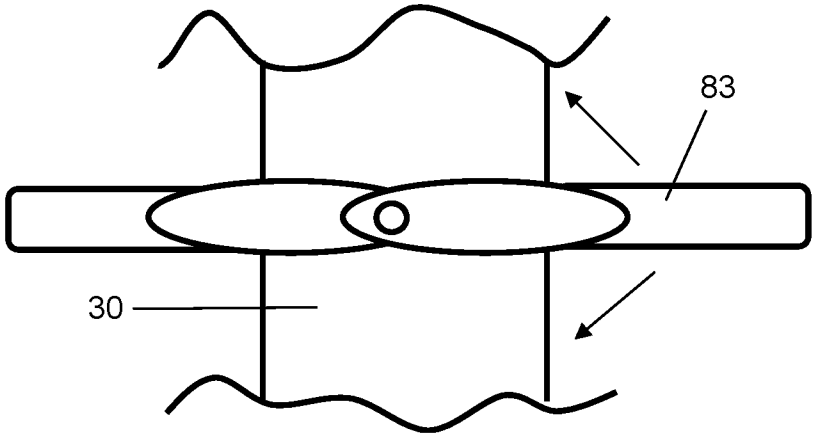


Fig. 10c

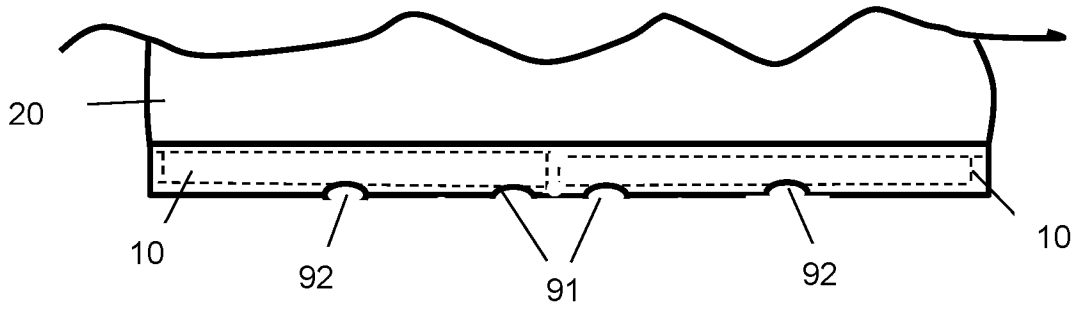


Fig. 10d

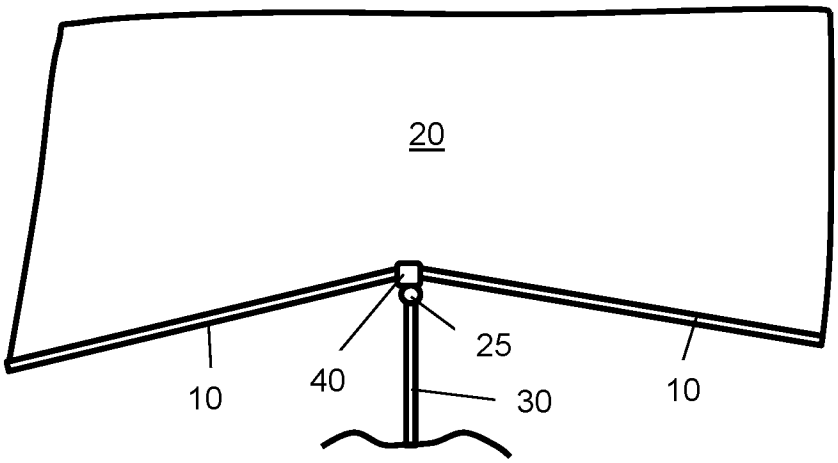


Fig. 10e

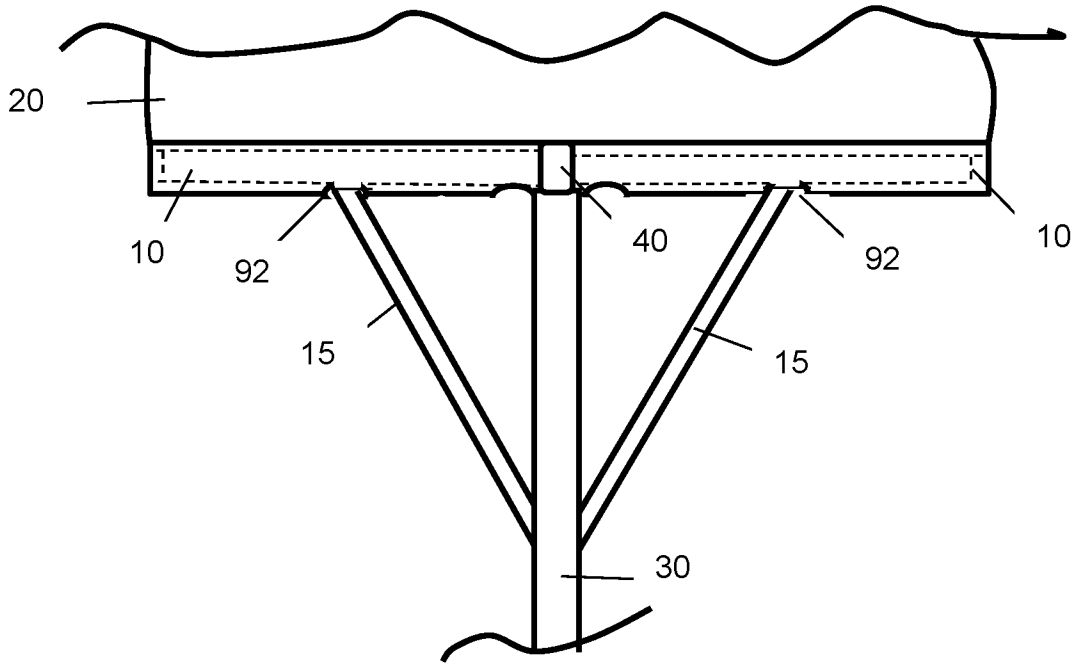


Fig. 10f

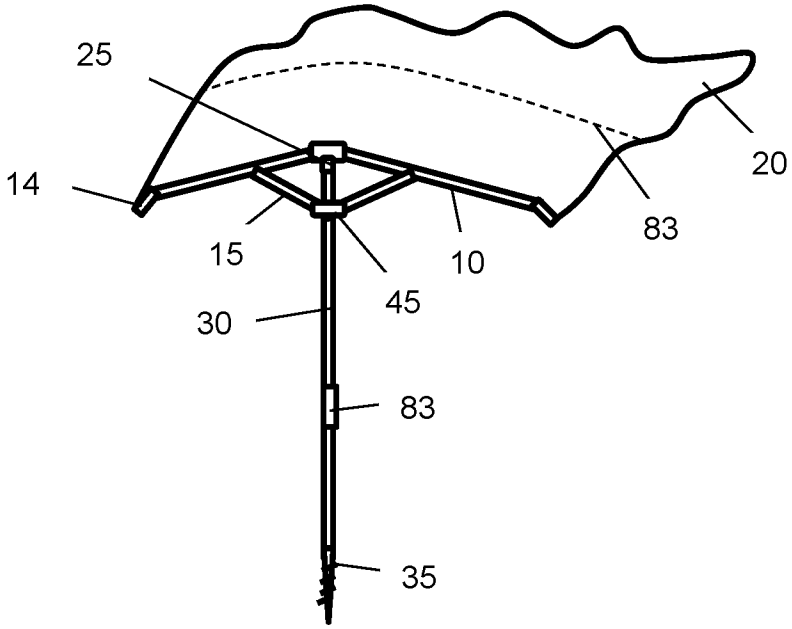


Fig. 10g

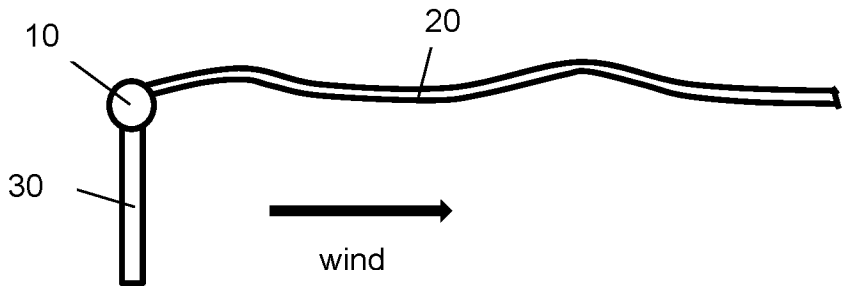


Fig. 10h

Electronic Patent Application Fee Transmittal

Application Number:	
Filing Date:	
Title of Invention:	SELF-ADJUSTING SUN SHADE ASSEMBLY
First Named Inventor/Applicant Name:	Paul T. James
Filer:	Ashley Darden Johnson
Attorney Docket Number:	255/2 RE

Filed as Micro Entity

Filing Fees for Reissue (Utility)

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Basic Filing:				
UTILITY REISSUE BASIC	3014	1	64	64
REISSUE OR REISSUE DESIGN CPA SEARCH FEE	3114	1	140	140
REISSUE OR REISSUE DESIGN CPA EXAM. FEE	3314	1	464	464
Pages:				
Claims:				
Miscellaneous-Filing:				
Petition:				
Patent-Appeals-and-Interference:				

Description	Fee Code	Quantity	Amount	Sub-Total in USD($)
Post-Allowance-and-Post-Issuance:				
Extension-of-Time:				
Miscellaneous:				
			Total in USD ($)	**668**

Electronic Acknowledgement Receipt

EFS ID:	48575374
Application Number:	18367224
International Application Number:	
Confirmation Number:	9298
Title of Invention:	SELF-ADJUSTING SUN SHADE ASSEMBLY
First Named Inventor/Applicant Name:	Paul T. James
Customer Number:	160172
Filer:	Ashley Darden Johnson
Filer Authorized By:	
Attorney Docket Number:	255/2 RE
Receipt Date:	12-SEP-2023
Filing Date:	
Time Stamp:	16:08:33
Application Type:	Reissue (Utility)

Payment information:

Submitted with Payment	yes
Payment Type	CARD
Payment was successfully received in RAM	$668
RAM confirmation Number	E20239BG10039017
Deposit Account	
Authorized User	
The Director of the USPTO is hereby authorized to charge indicated fees and credit any overpayment as follows:	

File Listing:

Document Number	Document Description	File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Application Data Sheet	ADS.pdf	2225798 648fa961a86e99380ef7071ea6be2972c25d763e	no	8
Warnings:					
Information:					
2	Information Disclosure Statement (IDS) Form (SB08)	IDS_PJ.pdf	1034529 45fd1e97692096ef43a481488897883d3cf2f696	no	4
Warnings:					
Information:					
3	Certification of Micro Entity (Education Basis)	ME.pdf	313111 0714a434e7c54ee1db47ec0ab58dbce15430e63c	no	2
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Information:					
4	Power of Attorney	POA.pdf	473127 7bf0f9654d73d66672c2b0b06e18b6c9272294cf	no	4
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5	Miscellaneous Incoming Letter	P1andP2.pdf	56277 6b6ced0ad56c2cb0d542e66721d6483f1533ca74	no	2
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6	Oath or Declaration filed	RE_DEC.pdf	649704 8ed9381e9c659d1d335263fcb06115099cd22a75	no	3
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9	Drawings-only black and white line drawings	Solbello_figs.pdf	432963 c1e6337cc5d57741061d637d200564af12e2e033	no	17
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			Total Files Size (in bytes):	6520677	

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New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for a filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application.

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.

PTO/AIA/14 (01-22)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76.
This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1 — Remove

Legal Name

Prefix	Given Name	Middle Name	Family Name	Suffix
	Paul	T.	James	

Residence Information (Select One) ● US Residency Non US Residency Active US Military Service

City	Wrightsville Beach	State/Province	NC	Country of Residence	US

Mailing Address of Inventor:

Address 1	1508 Radian Rd.
Address 2	

City	Wilmington	State/Province	NC
Postal Code	28405	**Country**	

All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the **Add** button. — Add

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below.
For further information see 37 CFR 1.33(a).

☐ **An Address is being provided for the correspondence Information of this application.**

Customer Number	160172		
Email Address	ajohnson@dogwood-law.com	Add Email	Remove Email

Application Information:

Title of the Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY		
Attorney Docket Number		**Small Entity Status Claimed**	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	17	**Suggested Figure for Publication (if any)**	

PTO/AIA/14 (01-22)
Approved for use through 05/31/2024. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32).
Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

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This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.
When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status: Patented — Remove

Application Number	Continuity Type	Prior Application Number	Filing Date (YYYY-MM-DD)	Patent Number	Issue Date (YYYY-MM-DD)
	reissued of	17417739	2020-06-22	11596211	2023-03-07

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)[i] the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

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Application Number	Country[i]	Filing Date (YYYY-MM-DD)	Access Code[i] (if applicable)

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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.
NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

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	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.

Applicant 1 Remove

If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.

Clear

● Assignee	Legal Representative under 35 U.S.C. 117	Joint Inventor
Person to whom the inventor is obligated to assign.	Person who shows sufficient proprietary interest	

If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:

Name of the Deceased or Legally Incapacitated Inventor:

If the Applicant is an Organization check here. ☐

Prefix	**Given Name**	Middle Name	**Family Name**	Suffix

Mailing Address Information For Applicant:

Address 1	Solbello, Inc.		
Address 2			
City	Wilmington	**State/Province**	NC
Country	US	Postal Code	28405
Phone Number		Fax Number	
Email Address			

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Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

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Address 1			
Address 2			
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Country i		Postal Code	
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Signature:

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NOTE: This Application Data Sheet must be signed in accordance with 37 CFR 1.33(b). **However, if this Application Data Sheet is submitted with the INITIAL filing of the application and either box A or B is not checked in subsection 2 of the "Authorization or Opt-Out of Authorization to Permit Access" section, then this form must also be signed in accordance with 37 CFR 1.14(c).**

This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/Ashley D. Johnson/			Date (YYYY-MM-DD)	2023-08-31
First Name	Ashley	Last Name	Johnson	Registration Number	58482

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Application Data Sheet 37 CFR 1.76	Attorney Docket Number	
	Application Number	
Title of Invention	SELF-ADJUSTING SUN SHADE ASSEMBLY	

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1 The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.

2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.

3 A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.

4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).

5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent CooperationTreaty.

6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).

7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.

8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.

9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

SELF-ADJUSTING SUN SHADE ASSEMBLY

CROSS REFERENCE TO RELATED APPLICATIONS

The present application claims the benefit of U.S. Provisional Patent Application No. 62/892,700, filed Aug. 28, 2019, the entire content of which is incorporated by reference herein.

TECHNICAL FIELD

The presently disclosed subject matter is directed to a self-adjusting sun shade assembly and to methods of making and the using the same.

BACKGROUND

Beach umbrellas are used to create an area shaded from the sunlight beneath the umbrella canopy. They are particularly useful at the beach where there is generally a lack of trees or roofed structures to provide shade. Because the skin of the beachgoer is largely exposed at the beach, there is a greater need to provide protection from harmful ultraviolet rays, which may cause sunburn or melanomas. Many beachgoers also require some form of shade to minimize heat discomfort. The shade and shelter provided by a beach umbrella is also useful in protecting the user's valuables and shielding perishable items from direct sunlight. Conventional beach umbrellas include a single central support pole with a pointed lower end that is inserted directly into the sand. Conventional umbrellas further include an overhead fabric covering attached to the support pole. However, the main problem with the canopy design of traditional umbrellas is that the position of the umbrella constantly shifts in response to wind gusts. As a result, the user must frequently readjust the umbrella to compensate for the shifts in movement. In addition, conventional umbrellas can easily tip over or be blown down the beach where they can cause hassle to the owner as well as injury to other beachgoers. Conventional umbrellas are also prone to wind breakage. It would therefore be beneficial to provide an umbrella with improved stability in response to the wind blowing. It would further be beneficial if the umbrella self-adjusted to the wind to prevent or reduce the likelihood of tipping over.

SUMMARY

In some embodiments, the presently disclosed subject matter is directed to a sun shade assembly (e.g., an assembly that provides shade from the sun). The assembly comprises a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap. The assembly further includes a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge. The assembly includes a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast. The assembly comprises at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast. The assembly comprises a tension adjuster that adjusts rotation of the pivot cap about the mast. The assembly comprises an anchor operably connected to the second end of the mast. The pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

In some embodiments, the pivot cap rotates about the mast at an angle of about 0-360 degrees. In some embodiments, the pivot cap rotates about a top end of the mast (e.g., is configured to rotate about the top end of the mast).

In some embodiments, the ribs are configured at an angle of greater than 180 degrees relative to each other.

In some embodiments, one face of the pivot cap comprises a lock defined by a bridge comprising an opening and a slidable arm that moves to cover and expose the opening. A portion of sail material can be locked in between the bridge and slidable arm to lock it into position.

In some embodiments, the slider is configured as a collar that fits around the exterior circumference of the mast.

In some embodiments, the mast length is adjustable.

In some embodiments, the anchor is releasably attached to the second end of the mast.

In some embodiments, the anchor comprises an auger. The term "auger" refers to a member in which a spiral vane or multiple parallel vanes are provided about the perimeter of a shaft.

In some embodiments, the tension adjuster is configured to permit the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween. The pivot cap, slider, ribs, and support arms rotate as a single, attached unit.

In some embodiments, the sail channel comprises one or more apertures to facilitate insertion of the ribs into the channel.

In some embodiments, the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm.

In some embodiments, the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

In some embodiments, the sail has a top face and a bottom face and wherein at least one of the top or bottom faces comprises a coating.

In some embodiments, the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

In some embodiments, the mast comprises at least one handle.

In some embodiments, the presently disclosed subject matter is directed to a method of using a sunshade. Particularly, the method comprises positioning the anchor of a sun shade assembly in a support surface. The sun shade assembly comprises: a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap; a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge; a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast; at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; a tension adjuster that adjusts rotation of the pivot cap about the mast; and an anchor operably connected to the second end of the mast. The method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs,

support arms, slider, and sail relative to the non-movable mast. The sun shade assembly self-adjusts in response to the blowing of the wind.

In some embodiments, the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

In some embodiments, the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

In some embodiments, one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

In some embodiments, the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. **1** is a front plan view of an sun shade assembly in accordance with some embodiments of the presently disclosed subject matter.

FIG. **2***a* is a front plan view of an assembly rib in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **2***b* and **2***c* are front plan views illustrating the folding of a rib in accordance with some embodiments of the presently disclosed subject matter.

FIG. **2***d* is a front plan view illustrating the angle of separation of two ribs in accordance with some embodiments of the presently disclosed subject matter.

FIG. **2***e* is a front plan view of folded ribs separated by a pivot cap in accordance with some embodiments of the presently disclosed subject matter.

FIG. **2***f* is a front plan view illustrating ribs comprising extension in accordance with some embodiments of the presently disclosed subject matter.

FIG. **3***a* is a front plan view of a pivot cap in accordance with some embodiments of the presently disclosed subject matter.

FIG. **3***b* is a top plan view of a pivot cap in use in accordance with some embodiments of the presently disclosed subject matter.

FIG. **3***c* is a top plan view of a pivot cap comprising a bridge and sliding arm in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **3***d*-**3***g* are side plan view of a pivot cap bridge and arm in use in accordance with some embodiments of the presently disclosed subject matter.

FIG. **4***a* is a top plan view of a slider configurated around a mast in accordance with some embodiments of the presently disclosed subject matter.

FIG. **4***b* is a front plan view of a mast comprising a slider in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **4***c*-**4***d* are front plan views illustrating use of a slider to adjust the position of one or more support arms in accordance with some embodiments of the presently disclosed subject matter.

FIG. **5***a* is a front plan view of a mast in accordance with some embodiments of the presently disclosed subject matter.

FIG. **5***b* is a front plan view of a pivot cap FIG. **6***a* is a front plan view of a mast in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **5***c* and **5***d* are side plan views illustrating a telescoping mast in accordance with some embodiments of the presently disclosed subject matter.

FIG. **6** is a perspective view of an anchor in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **7***a* and **7***b* are cross-sectional views of a tension adjuster in use in accordance with some embodiments of the presently disclosed subject matter.

FIG. **8***a* is a top plan view of a sail in accordance with some embodiments of the presently disclosed subject matter.

FIG. **8***b* is a front plan view of a sail in accordance with some embodiments of the presently disclosed subject matter.

FIG. **8***c* is a fragmentary top plan view of a sail channel in accordance with some embodiments of the presently disclosed subject matter.

FIG. **8***d* is a fragmentary top plan view of a sail channel comprising a plurality of apertures in accordance with some embodiments of the presently disclosed subject matter.

FIG. **8***e* is a perspective view illustrating a sail conduit in accordance with some embodiments of the presently disclosed subject matter.

FIG. **8***f* is a side plan view of a sail conduit in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **8***g*-**8***i* are side plan views of sail conduits in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **9***a*-**9***c* are cross-sectional views of sail coating arrangements in accordance with some embodiments of the presently disclosed subject matter.

FIG. **9***d* is a top plan view of a sail with a rear hem in accordance with some embodiments of the presently disclosed subject matter.

FIGS. **10***a* and **10***b* illustrate one method of inserting an anchor into a support surface in accordance with some embodiments of the presently disclosed subject matter.

FIG. **10***c* is a front plan view of mast handles in accordance with some embodiments of the presently disclosed subject matter.

FIG. **10***d* is a fragmentary top plan view of a sail channel comprising ribs in accordance with some embodiments of the presently disclosed subject matter.

FIG. **10***e* is a front plan view of a sail positioned on ribs and a mast in accordance with some embodiments of the presently disclosed subject matter.

FIG. **10***f* is a front plan view of an assembly with side arms attached to the mast and ribs in accordance with some embodiments of the presently disclosed subject matter.

FIG. **10***g* is a front plan view of an assembly with a sail extended in the direction of the wind in accordance with some embodiments of the presently disclosed subject matter.

FIG. **10***h* is a side plan view of a sail extended in the direction of the wind in accordance with some embodiments of the presently disclosed subject matter.

DETAILED DESCRIPTION

The presently disclosed subject matter is introduced with sufficient details to provide an understanding of one or more particular embodiments of broader inventive subject matters. The descriptions expound upon and exemplify features of those embodiments without limiting the inventive subject matters to the explicitly described embodiments and features. Considerations in view of these descriptions will

likely give rise to additional and similar embodiments and features without departing from the scope of the presently disclosed subject matter.

Unless defined otherwise, all technical and scientific terms used herein have the same meaning as commonly understood to one of ordinary skill in the art to which the presently disclosed subject matter pertains. Although any methods, devices, and materials similar or equivalent to those described herein can be used in the practice or testing of the presently disclosed subject matter, representative methods, devices, and materials are now described.

Following long-standing patent law convention, the terms "a", "an", and "the" refer to "one or more" when used in the subject specification, including the claims. Thus, for example, reference to "a device" can include a plurality of such devices, and so forth. It will be further understood that the terms "comprises," "comprising," "includes," and/or "including" when used herein specify the presence of stated features, integers, steps, operations, elements, and/or components, but do not preclude the presence or addition of one or more other features, integers, steps, operations, elements, components, and/or groups thereof.

Unless otherwise indicated, all numbers expressing quantities of components, conditions, and so forth used in the specification and claims are to be understood as being modified in all instances by the term "about". Accordingly, unless indicated to the contrary, the numerical parameters set forth in the instant specification and attached claims are approximations that can vary depending upon the desired properties sought to be obtained by the presently disclosed subject matter.

As used herein, the term "about", when referring to a value or to an amount of mass, weight, time, volume, concentration, and/or percentage can encompass variations of, in some embodiments+/−20%, in some embodiments+/−10%, in some embodiments+/−5%, in some embodiments+/−1%, in some embodiments+/−0.5%, and in some embodiments+/−0.1%, from the specified amount, as such variations are appropriate in the disclosed packages and methods.

As used herein, the term "and/or" includes any and all combinations of one or more of the associated listed items.

Relative terms such as "below" or "above" or "upper" or "lower" or "horizontal" or "vertical" may be used herein to describe a relationship of one element, layer, or region to another element, layer, or region as illustrated in the drawing figures. It will be understood that these terms and those discussed above are intended to encompass different orientations of the device in addition to the orientation depicted in the drawing figures.

The embodiments set forth below represent the necessary information to enable those skilled in the art to practice the embodiments and illustrate the best mode of practicing the embodiments. Upon reading the following description in light of the accompanying drawing figures, those skilled in the art will understand the concepts of the disclosure and will recognize applications of these concepts not particularly addressed herein. It should be understood that these concepts and applications fall within the scope of the disclosure and the accompanying claims.

FIG. **1** illustrates one embodiment of sun shade assembly **5**. Particularly, the assembly includes sail **20** that releasably attaches to a pair of ribs **10**, providing shade to the user. At least one support arm **15** can be used to reinforce ribs **10**. Mast **30** provides height to the assembly and includes anchor **35** that allows the assembly to be secured into a support surface (e.g., sand). The ribs and support arms rotate about the mast, thereby self-adjusting the direction of sail **20** in response to the wind blowing, as described in more detail below. The assembly further includes tension adjuster **25** that can be tightened or loosed to control the rotation of the ribs and support arms in response to wind conditions.

FIG. **2***a* illustrates one embodiment of rib **10**. As shown, the rib includes first end **11** and second end **12**. In some embodiments, the ribs can each include one or more joints **13** that can be folded, allowing the ribs to be easily stored when not in use, as illustrated in FIGS. **2***b* and **2***c*. Any mechanism can be used to fold the ribs, such as (but not limited to) hinges, joints, and the like. For example, a living hinge, a barrel hinge, spring hinge, butterfly hinge, flag hinge, H hinge, or any other pivotable member can be used.

The term "living hinge" refers to a hinge integrally formed with two opposite portions of the same material. The term "barrel hinge" refers to a sectional barrel secured by a pivot. The term "spring hinge" refers to a spring-loaded hinge that applies force to secure the hinge in an open or closed configuration. "Butterfly hinge" refers to dovetail or parliament hinges. The term "flag hinge" refers to hinges that can be taken apart with a fixed pin on one leaf, manufactured in a right-hand or left-hand configuration. An "H hinge" refers to a hinge shaped like an "H."

However, in some embodiments, the ribs are non-foldable and remain in the fully extended state, even during storage.

The ribs can be slightly offset relative to each other (e.g., are not 180 degrees apart). The offset nature allows the ribs to compensate for stretching of the sail. For example, in some embodiments, the angle **16** between ribs **10** can be about 180-300 degrees, as shown in FIG. **2***d*. Thus, the angle between ribs **10** can be at least/no more than about 180, 185, 190, 195, 200, 205, 210, 215, 220, 225, 230, 235, 240, 245, 250, 255, 260, 265, 270, 275, 280, 285, or 290 degrees. It should be appreciated that angle **16** is not limited and can be larger or smaller than the range set forth herein. The ribs can be fully folded, such as in a storage position, as shown in FIG. **2***e*.

In some embodiments, rib **10** can include extension **14** as shown in FIG. **2***f*. The extensions provide a decorative look the assembly when the sail is attached. Each extension can be attached to rib second end **12** using any desired method (e.g., adhesive, welding, clips, clamps, hinges, screws, bolts, magnets, etc.). It should be appreciated that extension **14** is optional.

Ribs **10** can have any desired length. For example, suitable lengths can include (but are not limited to) about 3-10 feet. Thus, the ribs can have a length of at least about (or no more than about) 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, or 10 feet. However, the presently disclosed subject matter is not limited the length of each rib can be larger or smaller than the range given herein.

The ribs are joined using pivot cap **40**, as illustrated in FIG. **3***a*. The pivot cap joins ribs **10** and enables rotation of the ribs about mast **30**. Thus, the pivot cap can freely rotate about the mast in response to wind conditions, as discussed in more detail below and as shown in FIG. **3***b*. The ribs can rotate in a clockwise or counterclockwise direction, depending on the wind direction. It should be appreciated that the ribs can join to pivot cap **40** using any mechanism (e.g., screws, bolts, clips, hinges, welding, adhesive, magnets, and the like).

In some embodiments, one face of pivot cap **40** includes bridge **94** comprising opening **93** and slidable arm **95** that can be used to releasably lock the sail into proper position, as shown in FIGS. **3***c*-**3***e*. Particularly, a portion of the sail can be inserted into opening **94**. Arm **95** can then be slid to

trap the portion of the sail over the bridge, as shown in FIGS. **3***f* and **3***g*. Thus, a portion of the sail is trapped between the bridge and the arm. To release the sail, the arm can be slid to expose opening **93**, thereby allowing the sail to be removed. The term "bridge" refers to any device that has a raised portion with an opening configured therein. In some embodiments, the arm can fully surround at least a segment of the raised bridge portion.

As shown in FIG. **4***a*, the assembly can include one or more support arms **15** that provide stability to the ribs, allowing the assembly to support the sail even in high wind conditions. Each support arm includes first end **16** attached to rib **10** and second end **17** attached to slider **45**. The support arms can be attached to the rib and slider using any known mechanism, such as the use of adhesives, welding, magnets, mechanical elements (screws, bolts, clips), and the like. In some embodiments, the support arms are hingedly attached to the ribs and/or slider to allow for easy transitioning between positions.

Slider **45** can move along mast **30** to fold or unfold the ribs and support arms. In some embodiments, the slider can be configured as a collar that fits about the outer circumference of mast **30**, as shown in FIG. **4***b*. The inner circumference of slider **45** is therefore at least slightly larger than the outer circumference of mast **30**. In this way, the slider and support arms can rotate freely about the mast. Particularly, the mast remains in a stationary position, while the slider (and attached support arms and ribs) rotate in response to the wind blowing. The slider can rotate in any direction (e.g., clockwise and counterclockwise).

The slider can include retention element **2** to keep it from sliding down the length of the mast. The retention element can include any device that retains the slider in a desired position on the mast, such as (but not limited to) a removable ledge with an outer circumference larger than the inner circumference of the slider, clips, pins, clasps, and the like. The retention element therefore locks the slider at a desired location along the mast. In this way, the ribs and support arms can be maintained in the open configuration without the slider slipping to a lower position. Likewise, the slider can also be locked in a lower "storage" configuration along the mast (or any location therebetween).

The slider can also be used to fold the ribs and support arms, such as when the assembly is transitioned to a storage configuration (e.g., not in use). When the slider is in an upper position on the mast, the support arms and ribs are unfolded outward and thus sail **20** is unfolded, as shown in FIG. **4***a*. When the slider moves to a lower position on the mast, the support arms and ribs are folded to the storage position, as shown in FIGS. **4***c* and **4***d*. Therefore, the slider can travel on the mast in an upward direction to extend the ribs and support arms to a fully open configuration. The slider can also move downward along the mast to transition the ribs and support arms into a folded position.

Ribs **10** and support arms **15** can have any desired cross-sectional shape. For example, the ribs and support arms can be configured with a circular, oval, square, rectangular, triangular, pentagonal, hexagonal, octagonal, heart, diamond, or abstract cross-sectional shape.

As set forth above, assembly **5** comprises mast **30** that reinforces ribs **10** and support arms **15**, as well as provides height to the assembly, as shown in FIG. **5***a*. The mast further provides a base about which the ribs can rotate via pivot cap **40**. The mast includes first end **31** operatively attached to pivot cap **40** and second end **32** attached to anchor **35**. The mast can be permanently or releasably attached to the pivot cap and/or anchor.

The pivot cap is attached to mast first end **31** using any known method. For example, a screw, bolt, or other element **33** can be threaded through the pivot cap, extending into the mast as shown in FIG. **5***b*. In this way, the pivot cap attaches to the mast and still can rotate freely in a clockwise or counterclockwise direction. The pivot cap can have any desired shape and is not limited to the embodiment shown in FIG. **5***b*. Attachment of the pivot cap to the mast is further not limited.

Mast **30** includes length **51** that in some embodiments can be adjusted as desired by the user. For example, the mast can include telescoping inner and outer tubes **41**, **42**. The term "telescoping" refers to a mechanical action of at least two longitudinal bodies of congruent cross-sections sliding relative to each other along a common longitudinal axis. As shown in FIGS. **5***c*-**5***d*, inner tube **41** can be at least partially slidably disposed into the interior of outer tube **42**. Specifically, the diameter of the outer tube is larger than the diameter of the inner tube such that the inner tube can be housed within the interior of the outer tube. The mast can include any number of telescoping tubes. A locking pin can pass through one or more holes **43** configured in the outer tube to hold the mast at the desired length. Alternatively, the inner and outer tubes can cooperate with a locking screw to secure the mast height. It should be appreciated that the length of the mast can be locked using any known element, such as friction fit, screw fit, snap-fit, screws, bolts, and the like.

It should further be appreciated that the length of the mast can be adjusted using any known mechanism and is not limited to a telescoping arrangement. For example, the mast can include a plurality of segments that can be added or removed as desired to achieve a suitable height. In other embodiments, the length of mast **30** is not adjustable.

Mast **30** can have any desired cross-sectional shape. For example, the mast can be configured with a circular, oval, square, rectangular, triangular, pentagonal, hexagonal, octagonal, heart, diamond, or abstract cross-sectional shape.

Second end **32** of the mast is operatively connected to anchor **35**. The term "anchor" broadly refers to any element that provides weight and/or a mechanism by which to secure assembly **5** into a support surface (e.g., sand). The anchor can be permanently attached to mast **30** using adhesives, welding, and the like. Alternatively, the anchor can be releasably attached to the mast using any of a wide variety of mechanical elements (e.g., screw knob **37**). A releasably attached anchor allows for the replacement of the anchor depending on use conditions (e.g., beach sand versus grass or rock).

FIG. **6** illustrates one embodiment of anchor **35** comprising auger **36** that can be configured as any type of spike, helical corkscrew, or shaft optionally having a threaded portion capable of being turned and embedding itself into a support surface (e.g., sand at a beach). Lower end **38** of the auger can be configured as a spike or pointed end to initiate insertion of the anchor into the support surface. Because auger **36** is inserted into a support surface, it does not rotate and remains in the inserted position until the user desires to remove it. Likewise, the mast does not rotate in response to wind conditions due to its attachment to the anchor.

The disclosed assembly further includes tension adjuster **25** that allows a user to adjust the tension on the pivot cap relative to the mast easily and safely. In this way, a user can alter the amount of rotation ribs **10**, support arms **15** and slider **45** have about mast **30** in response to wind conditions. The tension adjuster can be generally located adjacent to the

pivot cap. The tension adjuster is also attached to mast **30** using any known mechanism (e.g., screws, bolts, clips, etc.).

As described above, the pivot cap (and attached ribs, slider, and support arms) can freely rotate about the mast in response to the wind blowing. The tension adjuster can be tightened as desired by the user (e.g., when the wind is shifting back and forth) to stop or limit rotation of the pivot cap (and ribs, support arm, and slider) about the mast to maintain a more balanced assembly. For example, in some embodiments, the tension adjuster can be loosened to allow the pivot cap, ribs, support arms, and slider to freely rotate (e.g., 360 degrees) about the mast. In other embodiments, the pivot cap, ribs, slider, and support arms have a more limited freedom to rotate (e.g., it takes a stronger gust of wind to rotate). In some embodiments, the tension adjuster can be fully tightened such that the ribs, slider, and support arms cannot rotate relative to the mast.

Tension adjuster **25** can have any desired configuration that allows a user to control the level of movement of the tension cap relative to the mast. For example, in some embodiments, the tension adjuster can include passageway **60** with actuator **65** (e.g., lever or screw) capable of contacting pivot cap **40**, as shown in FIGS. **7***a* and **7***b*. Adjusting the actuator through the passageway will increase or decrease the tension on the pivot cap. Specifically, if the actuator is tightened to fully contact the pivot cap, the pivot cap will be incapable of moving relative to the mast. Alternatively, if the actuator is loosened such that it does not fully contact or press against the mast, the pivot cap is free to rotate. Any degree of actuator tightening can therefore adjust the level of pivot cap rotation.

The tension adjuster can have any known configuration and is not limited to the embodiment described above. For example, the tension adjuster can apply a force parallel, at an angle, or perpendicular to the tension it creates. The force can be generated by any known method, such as fixed displacement, stretching/compression of a spring, changing the volume of a gas, hydraulic pressure, or gravity. Tension adjuster **25** can therefore include any device that applies a force to create or maintain tension.

Further, actuator **65** can have any known configuration, such as (but not limited to) a lever, wrench, key, screw, handle, knob, bolt, and the like.

The ribs, mast, support arms, pivot cap, tension adjuster, and anchor can be constructed from any desired material, such as (but not limited to) metal (e.g., aluminum, steel, brass, stainless steel, copper), plastic, wood, stone, or combinations thereof. In some embodiments, each element is constructed from the same material. In other embodiments, one element can be constructed from a material that differs from at least one other element.

Assembly **5** further includes sail **20** that cooperates with ribs **10**. As shown in FIGS. **8***a* and **8***b*, the sail can include front edge **61**, rear edge **62**, and a pair of side edges **63**. The sail further includes top face **70** and bottom face **71**.

Front edge **61** comprises channel **65** sized and shaped to house each rib **10**, as shown in FIG. **8***c*. The front edge can be a straight edge, a curved edge, or have any known configuration. The ribs can be removed from channels **65** if desired by the user (e.g., to repair the sail or replace with a new sail). Channels **65** can be formed in the sail using any known method. For example, in some embodiments, the channel can be formed through sewing, welding, and the like. Such methods are well known in the art.

In some embodiments, each channel includes one or more apertures. For example, each channel can include apertures **91** sized and shaped to allow each rib to be inserted into channel **65**. The channel can further include one or more apertures **92** sized and shaped to allow each support arm to connect with the appropriate rib, as shown in FIG. **8***d*. Apertures **91**, **92** can have any desired size and/or shape so long as they allow for insertion of a rib and/or connection of a support arm with a rib (e.g., through one or more screws, clips, and/or the like). Further, apertures **91**, **92** can be positioned at any suitable position in the channel.

Optionally, bottom face **71** of the sail can include at least one closed conduit **72** that provides a passageway for the flow of the wind during use. FIG. **8***e* illustrates one embodiment of conduit **72** comprising open mouth **73** positioned adjacent to the sail front edge, length **74** and closed end **75**. FIG. **8***f* illustrates the flow of wind (represented by the arrows) as it enters open mouth **73**, hits closed end **75** and then exits the open mouth. Conduit **72** provides added support for the sail, preventing or reducing excess flapping in the wind.

In some embodiments, the length of the conduit is the same as the length of the sail (i.e., the conduit extends the full length of the sail). In other embodiments, the conduit is configured to be shorter than the length of the sail, as shown in FIGS. **8***g* and **8***h*. In some embodiments, the thickness of the conduit can taper as it reaches closed end **75**, as shown in FIG. **8***i*.

The conduit can have any cross-sectional shape, such as (but not limited to) square, rectangular, circular, oval, triangular, and the like.

In some embodiments, the sail can be formed as a single portion of material. In other embodiments, the sail can be constructed from two or more pieces of material joined together, such as by welding or sewing.

The sail can be configured in any desired shape, such as square, rectangular, rounded, oval, triangular, pentagonal, abstract, and the like. In some embodiments, the sail can include at least one straight edge to accommodate the channel.

The sail can further have any desired dimensions, such as length **77** and/or width **76** of about 3-20 feet (e.g., at least/no more than about 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, or 20 feet). In some embodiments, the sail can have an area of about 10-100 ft^2 (e.g., at least/no more than about 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 85, 90, 95, or 100 ft^2). However, the sail can be configured with dimensions outside the range given above. The term "length" refers to the distance in the longitudinal direction. The term "width" refers to the dimension perpendicular to the length.

Sail **20** can have any desired thickness, such as about 1 inch or less. Thus, the sail can have a thickness of about 1, 0.9, 0.8, 0.7, 0.6, 0.5, 0.4, 0.3, 0.2, 0.1, 0.01, 0.001 inches or less. However, the presently disclosed subject matter is not limited and the sail can have thickness of greater or less than the range given above.

Sail **20** can be constructed from any desired lightweight material. The term "lightweight material" refers to any material that is able to be lifted and carried by the wind (e.g., a wind speed of at least about 2-3 mph). Suitable materials can therefore include (but are not limited to) nylon, polyester, vinyl, rayon, canvas, acrylic fabric, cotton, or combinations thereof.

In some embodiments, the material(s) used to construct the sail can have a UPF (ultraviolet protection coefficient) rating of about 30 or more in accordance with ASTM D6544, incorporated by reference herein.

As shown in the cross-sectional views of FIGS. **9***a*-**9***c*, sail **20** can include coating **21** to reduce the noise level when the

sail is moving in the wind. The coating can be positioned on the sail top and/or bottom surfaces. The coating can span the entire top and/or bottom surface or only a portion thereof.

In addition to coating **21**, the sail can optionally be calendared and/or treated with the application of heat/pressure to aid in the reduction of noise. The term "calendaring" refers to a method of passing the sail between calendar rolls at high temperature and/or pressure.

Coating **21** can comprise any material that would serve to reduce the amount of noise and/or movement of sail **20**. Suitable materials can therefore include (but are not limited to) urethane polyurethane, plastic (e.g., polyethylene), or combinations thereof. Coating **21** can have any thickness, such as about 0.0001 inches to about 0.1 inches. In some embodiments, the coating can impart a waterproof or water-resistant quality to sail **20**. The term "waterproof" refers to a material that is impervious to water. The term "water-resistant" refers to the ability of a material to resist the entry of water to some degree but not entirely.

In some embodiments, sail **20** can include hem **82** sewn or otherwise applied at or adjacent to rear edge **62**, as shown in FIG. **9***d*. Hem **82** can be sewn with a durable material (e.g., monofilament nylon thread) to reduce the pliability of the sail, which aids in noise reduction and in the reduction of excess flapping in the wind. In some embodiments, hem **82** is in addition to any rear edge hem used to construct the sail (e.g., the rear edge can include an additional hem). It should be appreciated that hem **82** can be configured at any desired location.

In use, the disclosed umbrella assembly can be used to provide shade to one or more users. Anchor **35** is positioned in a support surface, such as sand at the beach. The anchor can be inserted into the ground using a twisting motion, which allows the auger to be easily buried, as shown in FIGS. **10***a* and **10***b*. In some embodiments, the mast can be manually rotated to insert the auger into the ground. In other embodiments, mast **30** can include one or more handles **83** that fold out to aid in screwing the auger into the ground, as illustrated in FIG. **10***c*. In some embodiments, handles **83** can rotate up and down, flush with the mast as shown by the arrows. Thus, the handles fold into the mast when not in use and can be easily folded out when desired to insert the auger into a support surface. It should be appreciated that the handles can have any desired configuration.

Mast **30** can then be extended to a desired length to accommodate one or more users and their belongings. For example, inner and outer tubes **41** and **42** can be adjusted as needed to a desired length. In other embodiments, the mast is of a single length and need only be positioned and attached to the anchor.

Ribs **10** can then be inserted into channel **65** of the sail. In some embodiments, each rib is inserted into channel aperture **91** for proper placement in the channel. It should be appreciated that aperture **91** can be positioned at any location in channel **65**. For example, in some embodiments, each aperture **91** is positioned adjacent to the center of the channel (e.g., about 1-10 inches from the center point of the channel). Once the ribs are inserted into channel **65**, apertures **92** are properly positioned to allow support arms **15** to be attached to the ribs, as shown in FIG. **10***d*. Particularly, the apertures provide an opening in the sail to allow the support arms to directly attach to the ribs. In this way, the support arms can be easily attached to the ribs.

The sail can then be secured into position via bridge **94** and arm **95** on the pivot cap, as shown in FIG. **10***e*. For example, in some embodiments, the portion of the sail positioned between apertures **91** can be inserted into the bridge opening, and the arm then slid over to trap the sail material in position. In this way, the sail does not significantly shift out of proper position during use.

The support arms can then be attached to the ribs through channel apertures **92**, as shown in FIG. **10***f*. Any known mechanism to secure the support arms to the ribs can be used. It should be appreciated that the opposing side of the support arms are secured to mast **30**.

It should be appreciated that the steps included above can be performed in any order.

If desired by the user, the tension adjuster can be set to lock the position of the ribs (e.g., no movement relative to the mast) or to limit movement. As the wind blows, the sail will move in response, blowing and extending outward providing shade to the user, as shown in FIGS. **10***g* and **10***h*. In some embodiments, the sail requires a wind speed of at least 2-3 miles per hour to flap or extend into the wind.

Because the support can rotate and adjust in response to the wind, the assembly has a reduced likelihood of falling over as a result heavy winds and/or when the wind shifts directions. Specifically, when the wind shifts direction, the sail will self-adjust (e.g. the pivot cap, ribs, sail, support arm, and slider rotate about the non-movable mast in response to the wind blowing and changing direction). In addition, because the sail rotates relative to the mast it prevents loosening the auger position and thereby causing failure of the assembly.

The disclosed assembly therefore offers many advantages over prior art systems. For example, because the sail consistently blows in response to the wind, the user's views are not blocked as is common with prior art umbrellas. As a result, users can keep an eye on children and the water at all times.

Further, the disclosed assembly allows the wind to self-adjust the direction of ribs **10** and sail **20**, saving the user the time and hassle of manually adjusting the assembly.

In addition, the assembly frame is designed to not fall over if the wind stops or changes direction by more than 90 degrees.

The frame of the assembly (e.g. mast) does not catch the wind. If the mast falls over, it typically falls straight to the ground and does not tumble down the beach.

The disclosed assembly is capable of being quickly assembled. Users can easily set up the umbrella assembly in about 40 seconds or less. Likewise, the assembly can be quickly and easily disassembled in about 40 seconds or less.

Current assemblies commonly make use of sandbags, requiring users to fill the bags with sand to weigh down the umbrella, which is messy, time consuming, and can be hazardous if no shovel is available. Further, if wet sand is used, it is even more difficult to fill the bags.

Assembly **5** comprises a single mast, so it is universally permitted on beaches where tents are not.

The mast is typically not in the middle of the umbrella sitting area, thereby providing adding convenience to the user.

The disclosed assembly is quiet compared to other umbrellas and sun shades. Specifically, sail **20** does not loudly flap in the wind. Rather the sail stays extended by consistently floating in the direction of the wind.

Further, the disclosed system acts as an effective seagull deterrent. Because the sail is constantly changing directions in response to the wind, birds are deterred and tend to keep their distance.

As described above, although several embodiments of the present invention have been described for illustrative purposes, those skilled in the art will appreciate that various

modifications, additions, and substitutions are possible without departing from the scope and spirit of the invention as disclosed in the accompanying claims.

What is claimed is:

1. A sun shade assembly comprising:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the pivot cap, ribs, slider, and support arms are configured to rotate about the mast in response to blowing of the wind.

2. The assembly of claim **1**, wherein the pivot cap rotates about the mast at an angle of about 0-360 degrees.

3. The assembly of claim **1**, wherein the ribs are configured at an angle of greater than 180 degrees relative to each other.

4. The assembly of claim **1**, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

5. The assembly of claim **1**, wherein the slider is configured as a collar that fits around the exterior circumference of the mast.

6. The assembly of claim **1**, wherein the anchor is releasably attached to the second end of the mast.

7. The assembly of claim **1**, wherein the sail channel comprises one or more apertures to facilitate insertion of the ribs into the channel.

8. The assembly of claim **1**, wherein the sail channel comprises one or more apertures to allow direct contact between each rib and a corresponding support arm.

9. The assembly of claim **1**, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

10. The assembly of claim **1**, wherein the sail has a top face and a bottom face and wherein at least one of the top or bottom faces comprises a coating.

11. The assembly of claim **1**, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

12. The assembly of claim **1**, wherein the mast comprises at least one handle for gripping the mast.

13. The assembly of claim **1**, further comprising a tension adjuster that adjusts rotation of the pivot cap about the mast.

14. The assembly of claim **13**, wherein the tension adjuster is configured to permit the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

15. A method of using a sunshade, the method comprising:

positioning the anchor of a sun shade assembly in a support surface, wherein the sun shade assembly comprises:

a pair of ribs defined by a first end and a second end, wherein the first end of each rib is attached to a pivot cap;

a sail with a front edge comprising a channel sized and shaped to house each rib such that the ribs extend across the edge;

a mast comprising a first end and a second end, wherein the first end is operably connected to the pivot cap, wherein the pivot cap can freely rotate about the mast;

at least one support arm with a first end and a second end, wherein the first end of the support arm is attached to a rib and the second end of the support arm is attached to a slider configured to move up and down the mast; and

an anchor operably connected to the second end of the mast;

wherein the sun shade assembly self-adjusts in response to the blowing of the wind.

16. The method of claim **15**, wherein the sail has a top face and a bottom face, and wherein the bottom face includes at least one conduit configured as a channel with an open mouth positioned adjacent to the channel, a closed back end, and a length parallel with the length of the sail.

17. The method of claim **15**, wherein one face of the pivot cap comprises a lock defined by a bridge comprising and opening and a slidable arm that moves to cover and expose the opening.

18. The method of claim **15**, wherein the sail has an opposed rear edge comprising an adjacent hem constructed from a durable material.

19. The method of claim **15**, wherein the sunshade assembly further comprises a tension adjuster that adjusts rotation of the pivot cap about the mast, and

wherein the method further includes adjusting the tension adjuster to achieve a desired amount of rotation of the pivot cap, ribs, support arms, slider, and sail relative to the non-movable mast.

20. The method of claim **19**, wherein the tension adjuster can be adjusted to allow the pivot cap, slider, ribs, and support arms to freely rotate about the mast, not rotate about the mast, or any level of rotation therebetween.

* * * * *

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