

October 30, 2022

Via e-mail: yonat@plm-law.com

CAREVATURE MEDICAL LTD.
27 Eli Hurwitz Street
Rehovot 7608803
Israel

Attention: Yonat Leibovich- Meir, Adv

Re: Family Budget Estimation for 2022-2023

Dear Yonat,

The tables attached to this letter summarize the expected action items and estimated costs of the portfolio of intellectual property owned by or licensed to CAREVATURE MEDICAL LTD. for **2022 and beginning of 2023** under our care.

The costs for maintenance are fixed fees and the dates they become due are also known in advance. These sums are definite and are presented in our tables below on the left hand side of each table (one table per family).

The costs for prosecution in most cases are merely estimates and appear in our tables below on the right hand side of each table. Prosecution dates and costs cannot be estimated with any certainty. Nevertheless, estimated dates and costs of both renewals and prosecutions are detailed in the following tables. During examination typically 1-2 office actions may be received and responded to for each application per year.

Please note the following:

- i. All amounts are in NIS, and include our estimated fees, our estimated associates' fees and the estimated official (government) fees but do NOT include charges incurred for translations or other direct costs, such as bank charges and VAT, where applicable.
- ii. Estimated costs for national phase filing of an international patent application (PCT) and for validation of a European or Eurasian patent will be provided separately, based on the countries elected.
- iii. Advance payment of at least one month for all renewals and prosecution actions must be paid in order to attend to these actions in a timely fashion.

If you have any question or comment please contact us.

Sincerely,



Ms. Lena Gershtein
Head of Paralegal Department
Fisher IP Group

File No.: CVM/001 **Filing establishing priority:** US Provisional Application No. 61/361930 of 7 July 2010

PCT filed: 7 July 2011 **Publication No.:** WO 2012/004766

Title: FLEXIBLE SURGICAL DEVICE FOR TISSUE REMOVAL

Abstract: An elongate tool with a cutting end. In some embodiments the end is bendable. Optionally, the end is bendable between two cutting edges. Optionally or alternatively, the end includes both a forward cutting edge and a side cutting edge. The tool may be sized for hand-held use, with control from outside the body, for treating a spinal stenosis.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
Europe	Granted	2590579	N/A	N/A	No further actions	
Germany	Granted	602011061618.8	7 July 2023		No further actions	
Spain	Granted	2590579	7 July 2023		No further actions	
France	Granted	2590579	7 July 2023		No further actions	
United Kingdom	Granted	2590579	7 July 2023		No further actions	
Italy	Granted	2590579	7 July 2023		No further actions	
US	Granted	9,204,891	8 June 2023		No further actions	
US (Cont.)	Granted	10,307,180	4 December 2022	Approx. 8,150*	No further actions	
US (Cont. 2)	Examination	16/364,756	After grant	N/A	Response to Final Office Action + RCE due 6 January 2023*	17,000-19,000

* Advance debit note will be issued upon receipt of instructions to proceed

** Advance debit note will be issued upon receipt of instructions to proceed

File No.: CVM/002 **Filing establishing priority:** US Provisional Application No. 61/699,315 of 11 September 2012

PCT filed: 11 September 2013 **Publication No.:** WO 2014/041540

Title: TISSUE REMOVAL DEVICE

Abstract: A device for cutting tissue including (a) an elongated shaft body defining a drive lumen, (b) a cutting head extending from a distal end of the elongated shaft body and being rotatable via a drive shaft disposed within the drive lumen, and (c) a retainer for keeping the cutting head attached to the shaft body if the cutting head becomes detached from the drive shaft or if the drive shaft breaks. A flexible drive shaft including (i) a core configured for resisting helixing, and (ii) at least one outer layer configured for transferring torque. A method of producing a flexible drive shaft including providing a core configured for resisting helixing, and wrapping the core with at least one outer layer of wires configured for maintaining high torsional rigidity. Related apparatus and methods are also described.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
China	Granted	104768478	11 September 2023		No further actions	
China (Div.)	Granted	ZL 2018101788585	11 March 2023 (grace period)	<i>Approx. 1,300</i>	No further actions	
Europe	Granted	2895085	N/A	<i>N/A</i>	No further actions	
Germany	Granted	60 2013 050 600.0	11 September 2023		No further actions	
Spain	Granted	2895085	11 March 2023 (grace period)	<i>Approx. 3,400*</i>	No further actions	
France	Granted	2895085	11 March 2023 (grace period)	<i>Approx. 3,400*</i>	No further actions	
United Kingdom	Granted	2895085	11 September 2023		No further actions	
Italy	Granted	2895085	11 March 2023 (grace period)	<i>Approx. 3,500*</i>	No further actions	
Hong Kong	Granted	1257059	11 September 2024		No further actions	
India	Examination	738/MUMNP/2015	After Grant	<i>N/A</i>	Providing bi-annual statement of corresponding applications	<i>Approx. 1,200</i>
US	Allowed	14/427408	After Grant	<i>N/A</i>	Reporting Letters Patent	<i>Approx. 1,500</i>

* Debit Notes 97094, 97095 and 97097.

Additional debit notes for late fees will be issued upon receipt instructions to proceed (pending Debit Notes include only the initial renewal fees)

File No.: CVM/003

Filing establishing priority: US Provisional Application No. 62/190261 of 9 July 2015

Title: ABRASIVE CUTTING SURGICAL INSTRUMENT

Abstract: The present disclosure provides instruments, devices and methods for surgical tissue cutting with a cylindrical cutting burr bit extending from an elongated hollow member, being connected to a shaft for actuating rotation motion of said burr bit to cut/remove tissue from a target location.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
Europe	Allowed	16178667.8	8 July 2023		Deadline national validation 2 February 2023 Reporting EP Patent Certificate	5,000* see below 1,000
US	Granted	10,561,427	18 August 2023		No further actions	
US (Cont.)	Granted	11,357,516	14 December 2025		No further actions	
US (Cont. 2)	Filed	17/740,518	After grant	N/A	Responding to each Office Action (if issued**)	12,000-15,000

* Total for validation of France, Germany and United Kingdom, payment can be delayed until 2 January 2023. Advance debit note will be issued upon receipt of instructions to proceed.

Costs of additional validations will depend on selection of countries.

** Probably not in 2022

File No.: CVM/004 **Filing establishing priority:** US Provisional Application No. 63/010,959 of 16 April 2020

PCT filed: 12 April 2021 **Publication No.:** WO 2021/209987

Title: TISSUE DEBULKING DEVICE

Abstract: Disclosed herein is a surgical tool for debulking hard tissue. The surgical tool includes: (i) an elongated hollow member including a distally located bent section; (ii) a cable extending within the hollow member, along a predetermined length thereof; (iii) a headpiece positioned at, or distally to, the bent section; (iv) a rotation actuator coupled to the cable proximal end and configured to rotate the cable about a longitudinal axis thereof; and (v) a motion converter coupled to a distal end of the cable and to the headpiece, at least part of the motion converter is positioned in, and/or distally, to the bent section, the motion converter being configured to transform rotational motion of the cable into an axial, reciprocating motion of the headpiece. The headpiece is configured to break up hard tissue by hammering thereof, when effecting axial, reciprocating motion, while simultaneously minimizing damage to soft tissue if struck.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US	Filed	N/A	After grant		Submitting initial Information Disclosure Statement Responding to each Office Action (<i>if issued</i> *)	2,500-3,000 12,000-15,000

* Not in 2022

File No.: CVM/005 **Filing establishing priority:** US Provisional Application No. 62/445,051 of 11 January 2017

PCT filed: 11 January 2018 **Publication No.:** **WO 2018/131039**

Title: SURGICAL INSTRUMENT WITH BENDED SHAFT

Abstract: A surgical bone cutting device, including a handle configured to facilitate operation and control of said device by an operator, and an elongated hollow member extending from the handle, the hollow member having a proximal end and a distal end; wherein the hollow member includes an opening at the distal end thereof and a rotatable cutting element extending through the opening, and wherein the hollow member includes a first bend at the proximal end thereof, such that the part of the hollow member distal to the proximal bend is offset a central axis of the handle.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
China	Examination	2018800142598	After grant	N/A	Responding to each Office Action (<i>if issued</i> *)	16,000-18,000
Europe	Examination	18738521.6	11 January 2023	5,950	Responding to each Office Action (<i>if issued</i> *)	16,000-18,000
Japan	Filed	2020-513994	After grant	N/A	Response to Office Action due 9 December 2022	16,000-18,000
Korea	Filed	10-2019-7022504	After grant	N/A	Response to Office Action due 20 December 2022	16,000-18,000
US	Allowed	16/476,424	After grant	N/A	Reporting Letters Patent	Approx. 1,500
US (Cont.)	Filed	17/866,919	After Grant	N/A	Filing suppl. Information Disclosure Statement Responding to Notice to File Corrected Application Papers w/1-month extension due 9 November 2022	2,440.70** 2,000
					Responding to each Office Action (<i>if issued</i> *)	12,000-15,000

* Probably not in 2022

** Debit Note No. 97441

*** Debit Note No. 97422 AND additional charge of approx. 450 NIS for extension fees (if response submitted by 9 November)

File No.: CVM/007 **Filing establishing priority:** US Provisional Application No. 63/124,999 of 14 December 2020
PCT filed: 30 November 2021 **Publication No.:** WO 2022/130368

Title: PNEUMATIC-BASED TISSUE DEBULKING DEVICES

Abstract: Disclosed herein is a surgical tool for debulking tissue including: a handle including a fluid inlet, an elongated member extending distally from the handle and including a distally located bent section and a chamber at least partially positioned distally to the bent section, a first lumen extending distally from the fluid inlet to the chamber, a piston assembly housed within the chamber and including a piston and a return mechanism, and a headpiece positioned distally to the chamber and motionally associated with the piston. The headpiece is configured to debulk tissue by striking thereof, when effecting axial, reciprocating motion. In operation, the chamber receives pressurized fluid, which is injected via the fluid- inlet. The fluid distally pushes the piston and the headpiece until the motions thereof are reversed by the return mechanism, such as to effect an axial, reciprocating motion of the headpiece.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
PCT	Filed	PCT/IL2021/051422	N/A	N/A	Deadline to file National Phase applications <u>14 June 2023</u>	<i>Costs will depend on selection of National Phase countries</i>

File No.: CVM/008 **Filing establishing priority:** US Provisional Application No. 63/088,135 of 6 October 2020
PCT filed: 5 October 2021 **Publication No.:** WO 2022/074647

Title: DEVICE SYSTEM AND METHOD FOR ROBOTIC SPINAL DECOMPRESSION

Abstract: Disclosed are robotic systems, surgical instruments for used therewith as well as methods of utilizing same in spinal decompression surgeries. The present disclosure generally relates to devices and methods for removing tissue from a body, and more particularly, but not exclusively, to methods and devices for minimally invasive removal of tissue from anatomically constrained sites without damaging surrounding non-targeted tissues, such as nerves. According to some embodiments, the robotic arm is a "master-slave"-type robotic arm, i.e. a robotic arm directly controlled by a human operator. According to some embodiments, the robotic arm is a remote-controlled robotic arm, i.e. a robotic arm controlled.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
PCT	Filed	PCT/IL2021/051195	N/A	N/A	Deadline to file National Phase applications <u>6 April 2023</u>	<i>Costs will depend on selection of National Phase countries</i>

File No.: CVM/009

Title: SURGICAL PATH-PLANNING FOR SPINAL DECOMPRESSION SURGERIES

Abstract: This application discloses systems and computerized methods for planning a tissue removal procedure, including obtaining a medical scan capable of identifying and/or visualizing bone tissue, identifying in the scan one or more tissue volumes of interest, removal of which is desired, computing one or more valid tissue removal paths, wherein the computing/calculating comprises ensuring that the tissue removal tool does not contact the one or more forbidden volumes, which forbidden volumes comprise tissue volumes that need be avoided during the procedure and scoring the one or more computed/calculated valid paths, based on one or more of the percentage of tissue volumes of interest removed, the safety of the procedure and the estimated length of the tissue removal path and/or estimated duration of the tissue removal procedure.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Pre-filing	N/A	N/A	N/A	File US provisional application (re-filing of 63/226,004)	<i>Approx. 3,800</i>

* Debit Note No. 96762

File No.: CVM/010

Title: REAL-TIME NAVIGATION OF BONE-CUTTING TOOL DURING MINIMALLY INVASIVE SPINAL DECOMPRESSION SURGERIES

Abstract: A tool navigation method and system for tissue removal procedures, based on obtaining a medical scan made prior to the medical procedure, but after positioning of a tube retractor, the medical scan capable of visualizing bone tissue in the medical scan and of visualizing the tube retractor, wherein the tube retractor comprises at least two sensors therein; inserting a medical tool through the tube retractor, the medical tool comprising at least one marker positioned at a distal portion of the medical tool, and continuously determining the position of the medical tool, relative to an anatomy visualized in the medical scan, based on changes in signals obtained from the at least two sensors in response to identification of the marker, during movement of the medical tool within and/or beyond the tube retractor, and based on the location of the tube retractor relative to the anatomy, as derived from the medical scan.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Pre-filing	N/A	N/A	N/A	File US provisional application (re-filing of 63/228,337)	<i>Approx. 3,800</i>

File No.: CVM/011

Title: SYSTEM AND METHOD FOR CAMERA INDEPENDENT ROBOTIC NAVIGATION

Abstract: Surgical navigation methods for performing medical procedures, the disclosed methods include a robotic arm, wherein the robotic arm has a coordinate system with initial reference point coordinates, which initial coordinate system is translated into a patient specific coordinate system based on alignment techniques of the disclosed methods.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Filed	63/326,873	N/A	N/A	Deadline to file PCT application 3 April 2023	<i>Approx. 14,000-16,000*</i>

* Assuming no additional drafting will be required

File No.: CVM/012

Title: SURGICAL INSTRUMENTS FOR BONE REMOVAL SURGERY COMPRISING AN ARTICULATION CONTROLLING ASSEMBLY

Abstract: A surgical instrument for bone removal surgery, the surgical instrument including a handle, an elongated hollow tubular member extending distally from the handle, wherein the elongated hollow tubular comprises an articulated distal section, a flexible drive shaft positionable within the elongated hollow tubular member, the flexible drive shaft terminating at a distal end thereof with an end effector, wherein the flexible drive shaft is configured to transfer torque and rotational speed of at least 10,000 rpm, from a proximal end of the hollow elongated member to the end effector, a first flexible member and a second flexible member extending from the handle to the articulated distal section of the elongated hollow member, and an articulation controlling assembly positioned within the handle and operably connected to the first and second flexible member, wherein the articulation controlling assembly is configured to control the relative movement of the first and second flexible member, thereby determining an angle of articulation of the articulated distal section, wherein the articulation controlling assembly comprises a self-locking mechanism configured to lock the position of the first and second flexible member, thereby securing the angle of articulation of the articulated distal section, when external pressure is applied thereon.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Filed	63/341,063	N/A	N/A	Deadline to file PCT application 12 May 2023	<i>Approx. 14,000-16,000*</i>

File No.: CVM/014

Title: ROBOTIC RETRACTOR

Claim 1:

A system for controlling a surgical retractor at a work area of a patient during a minimally invasive surgery, the system comprising: an electro-mechanical manipulator configured for attachment to an arm of the surgical retractor; and a processor and software executed by the processor, the software configured to control movement of the electro-mechanical manipulator and, as a result thereof, of the retractor.

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Pre-filing	N/A	N/A	N/A	File US provisional application	<i>Approx. 22,710 (paid)</i>



File No.: CVM/015

Title: 3-ARMED ROBOT FOR SPINAL DECOMPRESSION SURGERIES

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Pre-filing	N/A	N/A	N/A	File US provisional application	<i>Approx. 24,810</i>



File No.: CVM/016

Title: TOOL-RETRACTOR POSE ESTIMATION

Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
US Prov	Pre-filing	N/A	N/A	N/A	File US provisional application	<i>Approx. 24,810*</i>

TRADEMARKS:

File No.: CVM/101

Filing establishing priority: IL Trademark No. 251829 of 18 December 2012

International Trademark filed: 9 October 2016

Trademark No.: 1321955

Title: DREAL

Country	Status	Appl. No/ Trademark No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
IL	Registered	251829	18 December 2022	4,200	No further actions	
WIPO	Registered	1321955	9 October 2026		No further actions	
EM	Registered	1321955	9 October 2026		No further actions	
KR	Registered	1321955	9 October 2026		No further actions	
US	Registered	5,352,559	9 October 2026		Filing Declaration of Use due 12 December 2023	

File No.: CVM/102

Filing establishing priority: IL Trademark No. 288277 of 29 September 2016

International Trademark filed: 6 October 2016

Trademark No.: 1321150

Title: CAREVATURE

Country	Status	Appl. No/ Trademark No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
IL	Registered	288277	18 December 2022	4,200	No further actions	
WIPO	Registered	1321150	9 October 2026		No further actions	
EM	Registered	1321150	9 October 2026		No further actions	
KR	Registered	1321150	9 October 2026		No further actions	
US	Registered	5,352,546	9 October 2026		Filing Declaration of Use due 12 December 2023	
CN (subsequent designation)	Registered	1321150	6 October 2026		No further actions	

File No.: CVM/103

Title: CAREVATURE DREAL

Country	Status	Appl. No/ Trademark No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
CN	Registered	36323813	6 October 2029		No further actions	



File No.: CVM/106

Title: **Astraea (wordmark)**

Country	Status	Appl. No/ Trademark No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
Israel	Filed	350799	5 April 2032		Response to Office Action due 17 November 2022 Responding to each Office Action (if issued) Reporting Notice of Allowance (if issued)	4,000 3,000-4,500 500

* Advance debit note will be issued upon receipt of instructions to proceed

File No.: CVM/107

Title: Astraea (logo)



Country	Status	Appl. No/ Patent No.	Renewal		Prosecution	
			Date	Amount (NIS)	Date	Amount (NIS)
Israel	Filed	351965	11 May 2032		Response to Office Action due <u>17 November 2022</u> Responding to each Office Action (if issued) Reporting Notice of Allowance (if issued)	4,000 3,000-4,500 500

* Advance debit note will be issued upon receipt of instructions to proceed