

List of patents for Kleiner Device Labs

No.	Title and legacy ref.	Utility or Design	App. No.	Patent No.	Country /JxD	Expiration ⁽¹⁾	Brief Description
1	Tools and Methods For Spinal Fusion - Continuation 1 (SR 3762-6-1-CON)	Utility	13/27 7,272	8277510	US	2/6/29	Flow-through technology; serves to build fence around KDL's foundational technology.
2	Spinal Fusion Cage System with Inserter CON 3 (SR 3762-6-1-CON-2)	Utility	13/63 2,956	8,808,305	US	2/6/29	Flow-through technology; serves to build fence around KDL's foundational technology.
3	Spinal Fusion Cage System with Inserter (SR 3672-6-1-CON-4)	Utility	14/46 1,682	9,439,782	US	2/6/29	Flow-through technology; serves to build fence around KDL's foundational technology.
4	Spinal Fusion Cage System with Inserter CON 6 (SR 3762-6-1-CON-5)	Utility	15/26 1,287	10,179,054	US	2/6/29	Flow-through technology; serves to build fence around KDL's foundational technology.
5	US Patent App. Serial No. 16/248,269 - Spinal Fusion Cage System with Inserter (SR 3672-6-1-CON-6)	Utility	16/24 8,269		US	TBD	Flow-through technology; serves to build fence around KDL's foundational technology.
6	Spinal Distraction Instrument Design CON 1 (SR 3762-6-3)	Design	29/41 5,847	D667,542	US	9/18/26	Spinal distraction instrumentation to aid in surgery.
7	Spinal Distraction Instrument Design CON (SR 3762-6-4)	Design	29/43 3,403	D696,399	US	12/24/27	Spinal distraction instrumentation to aid in surgery.
8	Bone Graft Delivery Device and Method of Using the Same (SR 3762-18)	Utility	12/88 6,452	8,906,028	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
9	Apparatus and Method of Spinal Implant and Fusion (SR 3762-18-CIP-1 (Vol .1 and 2))	Utility	13/36 7,295	9,060,877	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
10	Fusion Cage with Combined Biological Delivery System (SR 3762-18-CIP-2)	Utility	13/71 4,971	9,173,694	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
11	Fusion Cage with Combined Biological Delivery System (SR 3762-18-CIP-3 (Vol. 1 and 2))	Utility	13/94 7,255	8,685,031	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
12	Fusion Cage with Combined Biological Delivery System (SR 3762-18-CIP-3-CON)	Utility	14/08 8,148	8,709,088	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
13	Fusion Cage with Combined Biological Delivery System (SR 3762-18-CIP-3-CON-CIP)	Utility	14/26 3,963	9,186,193	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.

14	Biological Delivery System with Adaptable Fusion Cage Interface (SR 3762-18-CIP-3-CON-CIP-2)	Utility	14/88 7,598	9,629,729	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
15	Bone Graft Delivery System and Method for Using Same (SR 3762-18-CIP-3-CON-CIP 2- CO	Utility	15/48 6,511	10,195,053	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
16	Bone Graft Delivery System and Method for Using Same (SR 3762-18-CIP3-C-CIP2-C-CIP(E FILE))	Utility	16/19 8,754	10,245,159	US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
17	US App No 16/373,410 - Bone Graft Delivery System and Method for Using Same (SR 3762-18-CIP3-C-CIP2-CCIP2)	Utility	16/37 3,410		US	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
18	Fusion Cage with Combined Biological Delivery System (SR 3762-18-PEP)	Utility	1E+07	EP2618753	European Union	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
19	Fusion Cage with Combined Biological Delivery System (SR 3762-18-PEPHK)	Utility	1E+07	HK1188101	Hong Kong	9/20/30	Flow-through technology; serves to build fence around KDL's foundational technology.
20	Devices and Methods for Preparing an Intervertebral Workspace (SR 3762-36(Vol.1 and 2))	Utility	13/16 8,611	9,247,943	US	2/6/29	Spinal disc removal instrumentation to aid in surgery.
21	Devices and Methods for Preparing an Intervertebral Workspace (SR 3762-36-CON)	Utility	15/01 0,611	9,826,988	US	2/6/29	Spinal disc removal instrumentation to aid in surgery.
22	Angled Surgical Tool for Removing Tissue from Within an Intervertebral Space (SR 3762-36-CON-1)	Utility	15/81 0,810	10,201,355	US	2/6/29	Spinal disc removal instrumentation to aid in surgery.
23	Intervertebral Surgical Tool (SR 3762-49)	Design	29/42 7,387	D700,322	US	2/25/28	Spinal surgery instrumentation.
24	Bone Graft Delivery Tool (SR 3762-53)	Design	29/45 3,829	D723,682	US	3/3/29	Flow-through technology; serves to build fence around KDL's foundational technology.
25	Canadian Design Patent No. 153952 - Bone Graft Delivery Tool (SR 3762-53-CA)	Design	2E+05	153952	Canada	11/1/28	Flow-through technology; serves to build fence around KDL's foundational technology.
26	EU Designs (split in two) - Bone Graft Delivery Tool (SR 3762-53-EU)	Design	0023 3702 2	002337022 -0001 002337022 -0002	European Union	10/31/38	Flow-through technology; serves to build fence around KDL's foundational technology.
27	Japanese Design Patent No. 1497585 - Bone	Design	2013- 2583 5	1497585	Japan	4/11/34	Flow-through technology; serves to build fence around KDL's foundational technology.

	Graft Delivery Tool (SR 3762-53-JP)						
28	Expandable Fusion Cage (Design Pat) (SR 3762-58)	Design	29/50 6,748	D750,249	US	2/23/31	Spinal implant for use with the flow-through technology.
29	Fusion Caged (Design Pat) (SR 3762-63)	Design	29/53 2,670	D789,539	US	6/13/32	Spinal implant for use with the flow-through technology.
30	Bone Graft Delivery Tool (Design Pat) (SR 3762-66)	Design	29/54 2,927	D797,290	US	9/12/32	Flow-through technology; serves to build fence around KDL's foundational technology.
31	Chinese Design Application No. 201530389193.X - Bone Graft Delivery Tool (SR 3762-66-CN)	Design	2015 3038 9193. X	201530389 193.X	China	TBD	Flow-through technology; serves to build fence around KDL's foundational technology.
32	US CONT PAT APPLICATION ON KIT FOR BONE GRAFT DELIVERY	Utility	17/00 0,799		US	TBD	Flow-through technology; serves to build fence around KDL's foundational technology.
33	US NAT PHASE - Disc Space Preparation Tool	Utility	17/04 9545		US	TBD	Flow-through technology; serves to build fence around KDL's foundational technology.
34	US Utility Application - Bone Graft Delivery System and Method for Using Same	Utility	17/02 1,789		US	TBD	Flow-through technology; serves to build fence around KDL's foundational technology.