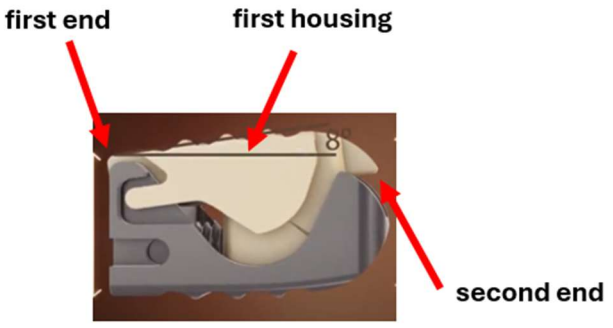


Exhibit C1

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
Row	Claim 1	
1A	An expandable interbody device comprising: a first housing extending from a first end to a second end, wherein the first housing has first and second end portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions,	To the extent the preamble is limiting, the '284A Accused Instrumentalities include an expandable interbody device. The '284A Accused Instrumentalities include a first housing extending from a first end to a second end, wherein the first housing has first and second end portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions. For example, Medtronic promotional material identifies the Elevate™ Spinal System as an “Expandable Interbody Device.” 

¹ These allegations are exemplary and Moskowitz Family LLC reserves the right to supplement them as the case progresses.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

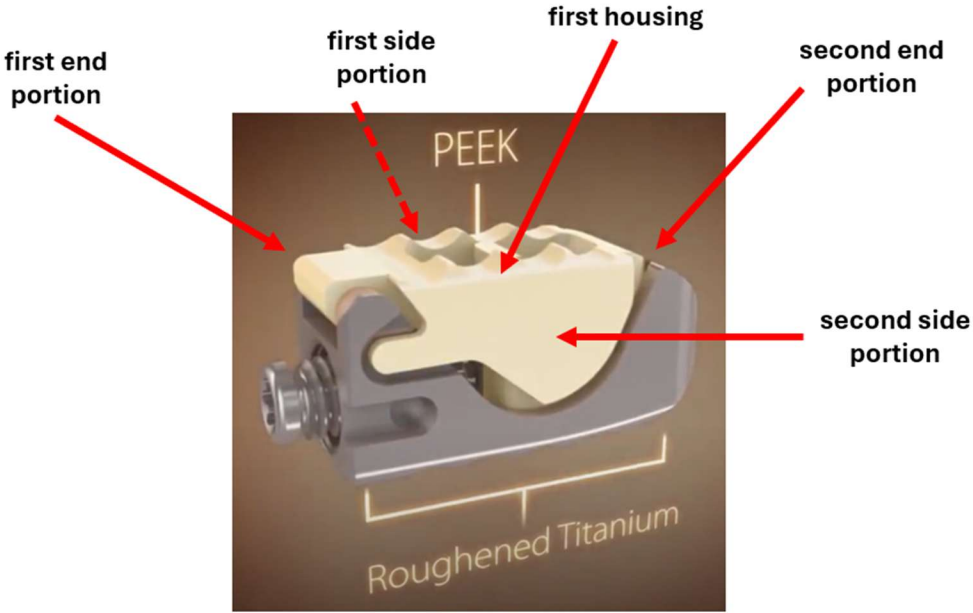
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
1B	wherein the first housing has a first vertebral body engagement surface and has a first interior surface positioned on an opposite side of the first The first housing has a first vertebral body engagement surface and has a first interior surface positioned on an opposite side of the first housing than the first vertebral body engagement surface.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

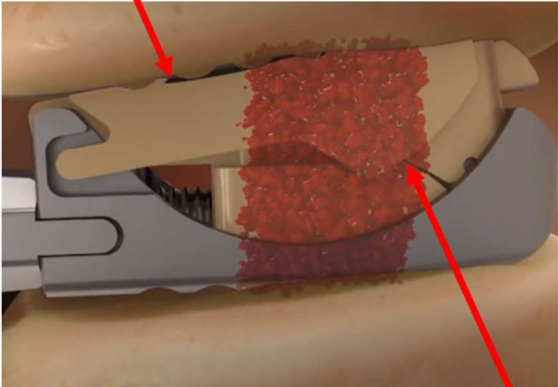
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
housing than the first vertebral body engagement surface;	For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Teeth on the surface to reduce the likelihood of expulsion.” first vertebral body engagement surface  first interior surface <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
1C a second housing extending from a third end to a fourth end, wherein the second housing has	The '284A Accused Instrumentalities include a second housing extending from a third end to a fourth end, wherein the second housing has third and fourth end portions positioned at the third

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

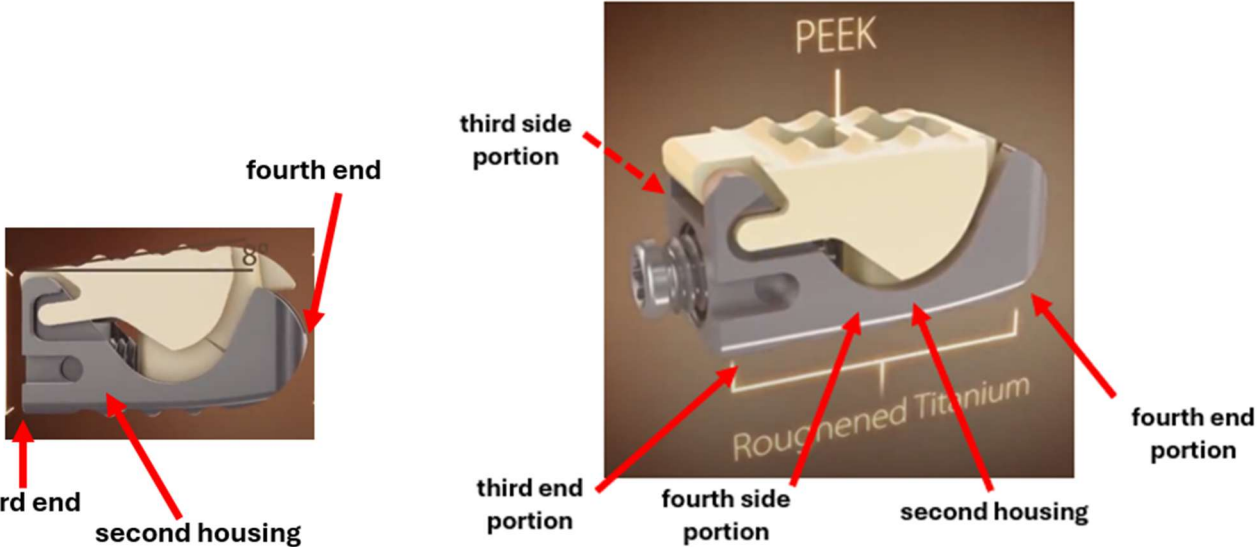
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
third and fourth end portions positioned at the third and fourth ends, respectively, and has third and fourth side portions extending between the third and fourth end portions,	and fourth ends, respectively, and has third and fourth side portions extending between the third and fourth end portions.  <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1D wherein the second housing has a second vertebral body engagement surface and has a second interior surface	The second housing has a second vertebral body engagement surface and has a second interior surface positioned on an opposite side of the second housing than the second vertebral body engagement surface.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
positioned on an opposite side of the second housing than the second vertebral body engagement surface,	For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Teeth on the surface to reduce the likelihood of expulsion.” <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1E wherein the first housing is aligned with the second housing such that the first end of the	The first housing is aligned with the second housing such that the first end of the first housing is axially aligned with the third end of the second housing and the second end of the first housing is axially aligned with the fourth end of the second housing.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

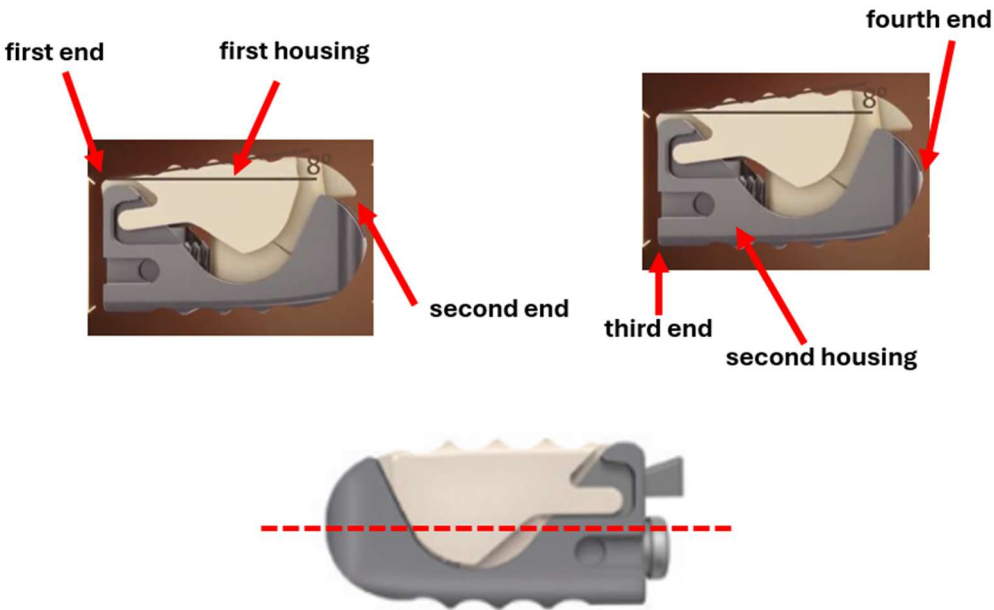
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
first housing is axially aligned with the third end of the second housing and the second end of the first housing is axially aligned with the fourth end of the second housing,	 Exemplary Sources http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
1F wherein the first end portion of the first housing is hingedly connected to the third end portion of the second housing such that the first housing can	The first end portion of the first housing is hingedly connected to the third end portion of the second housing such that the first housing can pivot with respect to the second housing so as to move the second end portion of the first housing away from the fourth end portion of the second housing.

EXHIBIT C1 - U.S. PATENT 10,016,284 **Infringement Claim Chart**

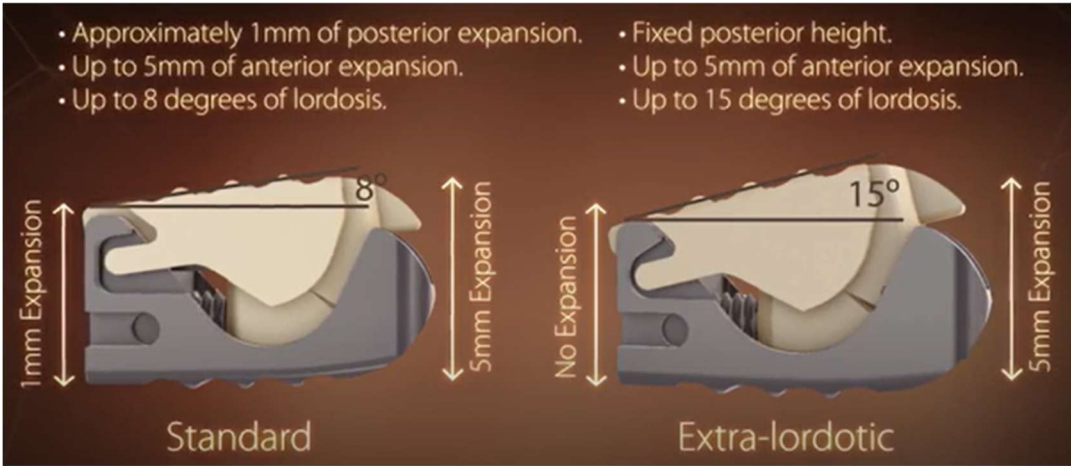
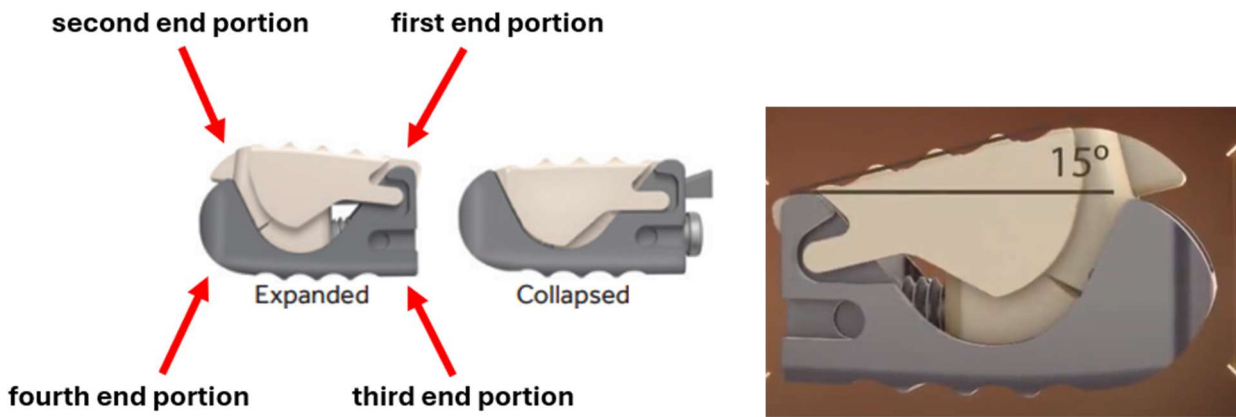
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
pivot with respect to the second housing so as to move the second end portion of the first housing away from the fourth end portion of the second housing,	For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”  The diagram compares two spinal implant configurations. The 'Standard' implant on the left is shown with a lordotic angle of 8°. It features '1mm Expansion' at the posterior and '5mm Expansion' at the anterior. The 'Extra-lordotic' implant on the right is shown with a lordotic angle of 15°. It features 'No Expansion' at the posterior and '5mm Expansion' at the anterior. Both implants have a 'Fixed posterior height'.  The diagram illustrates the mechanical components and states of the implant. Red arrows point to the 'second end portion', 'first end portion', 'fourth end portion', and 'third end portion'. The implant is shown in two states: 'Expanded' and 'Collapsed'. A separate view on the right shows the implant at a 15° angle.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

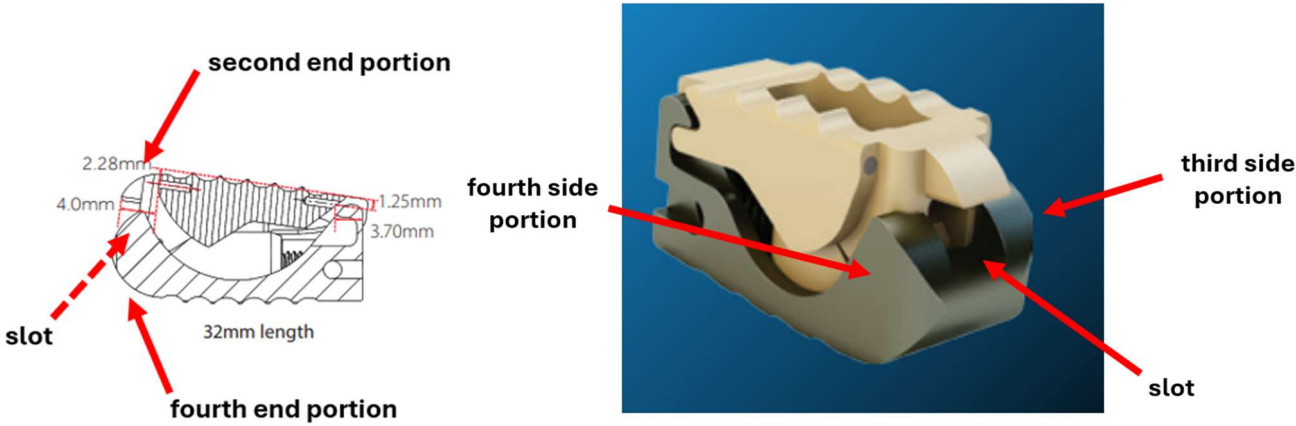
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<i>See also</i> Rows 1A and 1C. <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1G wherein the second housing defines a slot in the fourth end portion between the third and fourth side portions that is sized to receive the second end portion of the first housing such that the second end of the first housing and the fourth end of the second housing are axially aligned;	The second housing defines a slot in the fourth end portion between the third and fourth side portions that is sized to receive the second end portion of the first housing such that the second end of the first housing and the fourth end of the second housing are axially aligned. For example, Medtronic promotional material states that the “PEEK nose is fully recessed within the Titanium Alloy bottom” in the collapsed position. 

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom. ment. tip of the STANDARD PEEK nose is fully recessed within the Titanium Alloy bottom. EXTRA-LORDOTIC CORRECT Screws are fully retracted INCORRECT See also Rows 1A, 1C, and 1E.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1H a wedge extending from a fifth end to a sixth end and having an angled wedge surface extending along at least a portion of a distance between the fifth end and the sixth end,	The '284A Accused Instrumentalities include a wedge extending from a fifth end to a sixth end and having an angled wedge surface extending along at least a portion of a distance between the fifth end and the sixth end. The diagram shows a cross-sectional view of a wedge-shaped medical device, likely a vertebral body cage. A red arrow points to the slanted side of the wedge, labeled 'angled wedge surface'. Another red arrow points to the top flat surface of the wedge, labeled 'wedge'. A red arrow points to the top edge of the device, labeled 'fifth end'. A red arrow points to the bottom edge of the device, labeled 'sixth end'. A dashed red arrow points to the bottom edge, labeled 'Expanded', indicating the device's function to expand and fit between vertebrae. <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1I wherein the wedge is positioned between the first housing and the second housing with the	The wedge is positioned between the first housing and the second housing with the angled wedge surface facing the first interior surface of the first housing.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

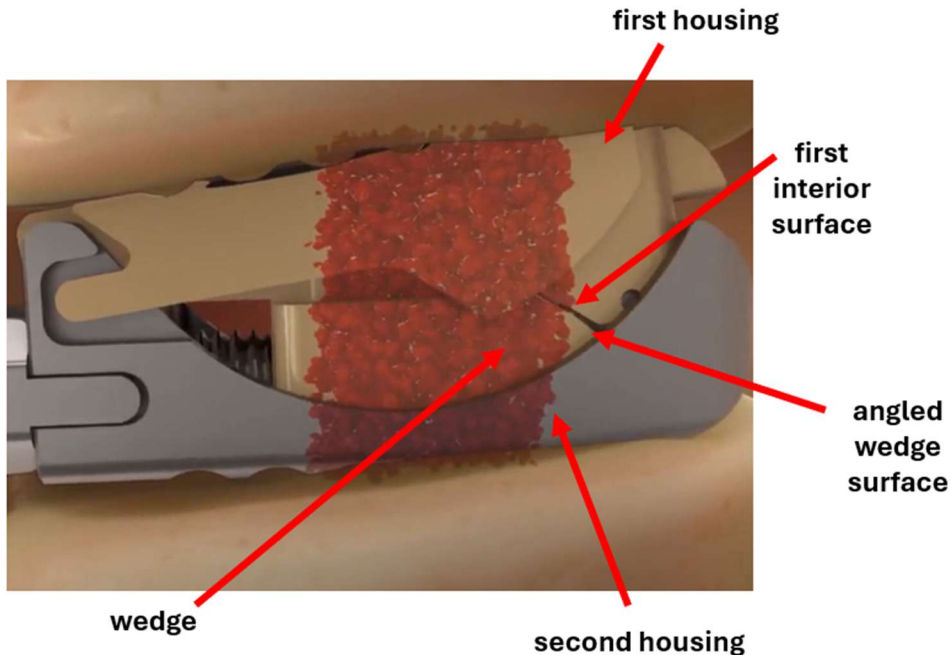
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
angled wedge surface facing the first interior surface of the first housing,	 <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1J wherein the first interior surface of the first housing has an angled housing surface shaped to engage the angled wedge	The first interior surface of the first housing has an angled housing surface shaped to engage the angled wedge surface of the wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the first housing and is less than a distance from the third end to the fourth end of the second housing.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

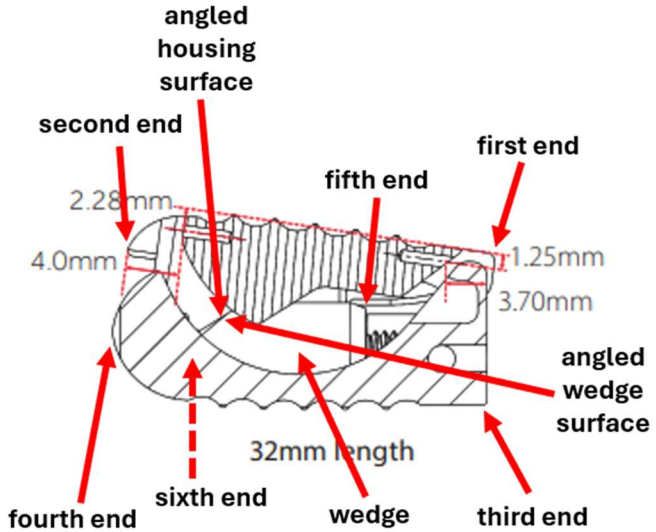
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
surface of the wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the first housing and is less than a distance from the third end to the fourth end of the second housing,	 <i>See also Rows 1A-1C, 1H.</i> <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1K wherein the wedge is configured to slide within a spaced defined by the first and second housings in a direction	The wedge is configured to slide within a spaced defined by the first and second housings in a direction toward the second and fourth ends of the first and second housings from a first wedge position that allows the first and second housings to pivot to a housing position that is substantially closed to a second wedge position whereby the angled wedge surface presses

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

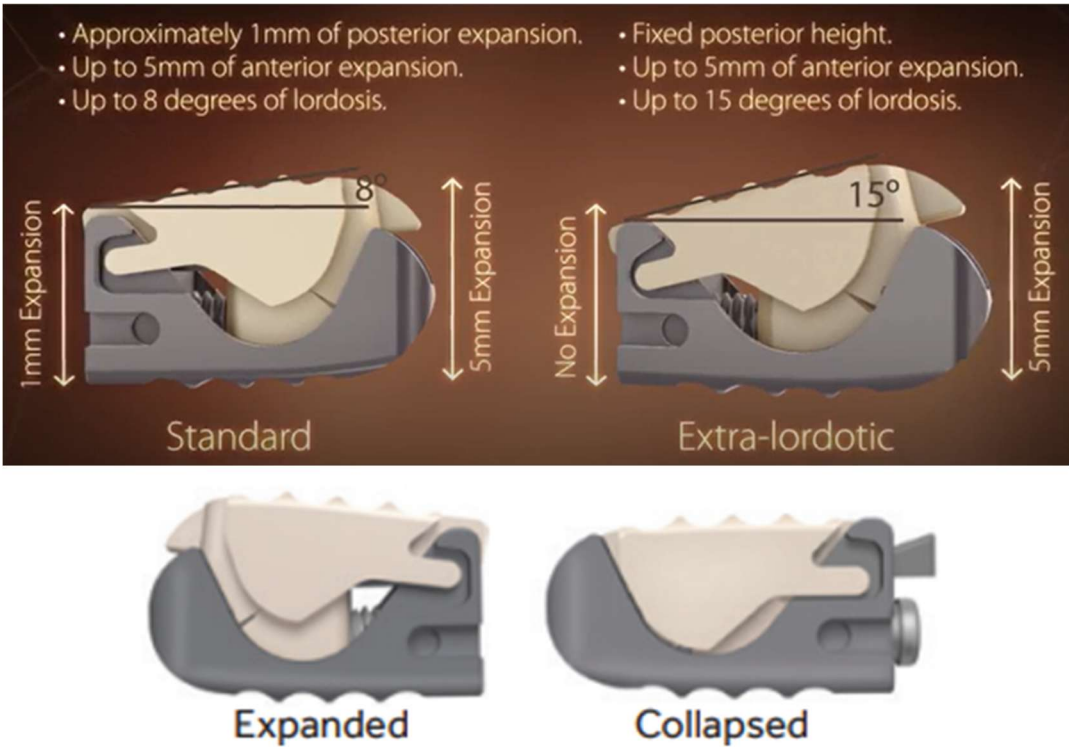
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
toward the second and fourth ends of the first and second housings from a first wedge position that allows the first and second housings to pivot to a housing position that is substantially closed to a second wedge position whereby the angled wedge surface presses against the first interior surface of the first housing to hingedly open the first housing with respect to the second housing whereby the wedge remains axially confined within the space defined by the first and second housings in the first and second wedge positions; and	against the first interior surface of the first housing to hingedly open the first housing with respect to the second housing whereby the wedge remains axially confined within the space defined by the first and second housings in the first and second wedge positions. For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”  The diagram illustrates the mechanical differences between two spinal disc prostheses. The 'Standard' prosthesis is shown with a wedge angle of 8° and provides approximately 1mm of posterior expansion, up to 5mm of anterior expansion, and up to 8 degrees of lordosis. The 'Extra-lordotic' prosthesis has a fixed posterior height, provides up to 5mm of anterior expansion, and offers up to 15 degrees of lordosis. Below these cross-sectional views, two additional images show the device in its 'Expanded' and 'Collapsed' states, demonstrating its hinged movement.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

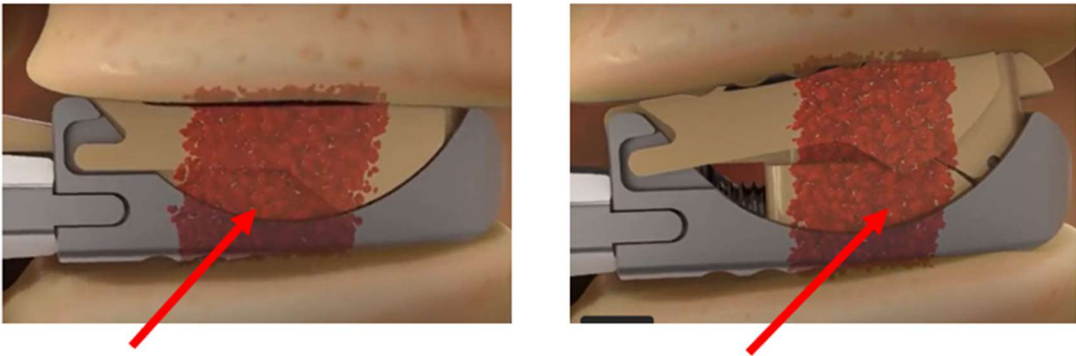
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 first wedge position second wedge position <i>See also</i> Rows 1A-1C, 1F, 1I-1J. <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
1L	a rotation screw operably connected to the wedge and to the second housing, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the first housing and the second housing within the space defined by the first and The '284A Accused Instrumentalities include a rotation screw operably connected to the wedge and to the second housing, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the first housing and the second housing within the space defined by the first and second housings from the first wedge position to the second wedge position. For example, Medtronic promotional material instructs users to “Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom” during insertion. This material further states “In order to expand the implant inside

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
second housings from the first wedge position to the second wedge position.	the disc space, insert the Inserter Drive Shaft along with the attached Torque Handle inside the Inserter Assembly (Figure 6). Next, turn the Torque Handle clockwise to expand the implant (Figure 7).” A cross-sectional diagram of a disc space. A wedge is shown being inserted into the disc space. The wedge has a length of 32mm. A rotation screw is shown passing through the wedge. Dimensions are indicated: 2.28mm for the height of the wedge, 4.0mm for the width of the wedge, 1.25mm for the thickness of the disc space, and 3.70mm for the width of the disc space. Lateral Three lateral views of the inserter assembly, showing the progression of the implant being expanded into the disc space.

EXHIBIT C1 - U.S. PATENT 10,016,284 **Infringement Claim Chart**

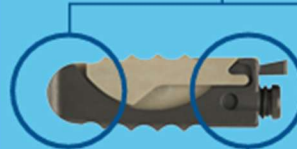
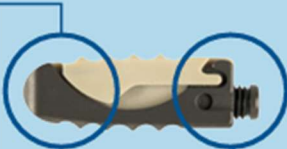
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	ment. tip of the Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom. STANDARD PEEK nose is fully recessed within the Titanium Alloy bottom. CORRECT  INCORRECT  EXTRA-LORDOTIC  Screws are fully retracted   Expanded  Collapsed

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

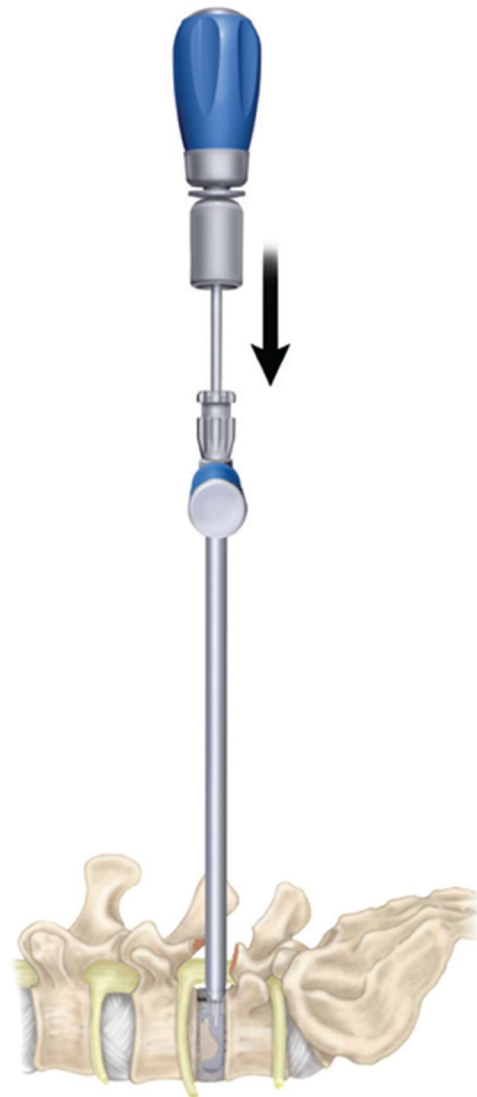


Figure 6

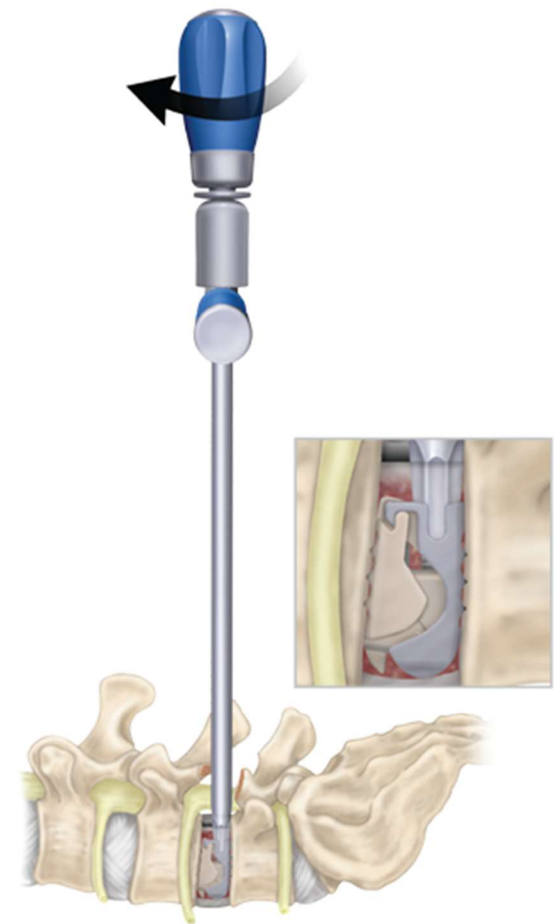


Figure 7

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
		<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
Row	Claim 2	
2	The device of claim 1, wherein the first housing defines a first bone material receiving area between the first and second end portions and the first and second side portions, and wherein the second housing defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions.	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The first housing defines a first bone material receiving area between the first and second end portions and the first and second side portions, and wherein the second housing defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions. For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Continuous apposition of bone-graft-to-endplate during expansion” and an “Open volume design for appropriate bone graft material.” This material further states “This expandable interbody device is intended to be used with autograft and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone. In addition to filling the implant, the disc space may be filled with appropriate bone grafting material” and “The hollow geometry of the implants allows them to be packed with autogenous and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone.”

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

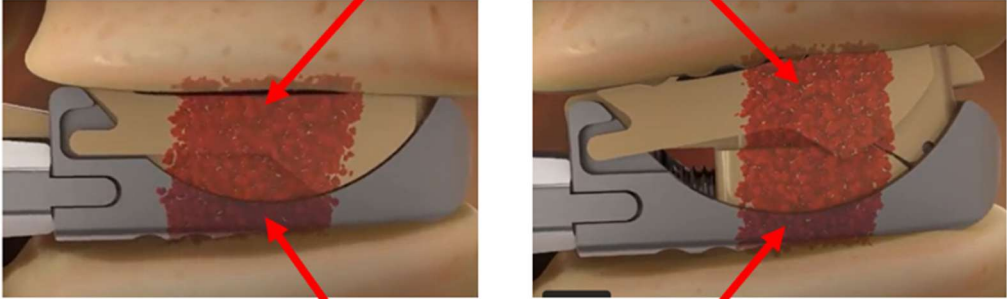
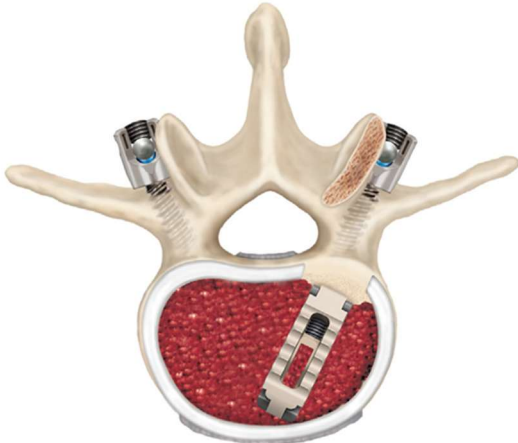
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	first bone material receiving area second bone material receiving area   

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
		<i>See also</i> Claim 1, Rows 1A and 1C. <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
Row	Claim 4	
4	The device of claim 1, and further comprising means for mating with prongs of a tool.	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The '284A Accused Instrumentalities include means for mating with prongs of a tool. For example, Medtronic promotional material for the Elevate™ Spinal System instructs the user to “Thread the Inner Locking Tube into the Inserter in order to assemble the Inserter Assembly (Figure 3). Next attach the implant to the Inserter by turning the Inner Locking Tube clockwise (Figure 4). It is recommended that the implant be attached to the Inserter so the PEEK portion of the implant with x-ray markers is superior during the insertion.”

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

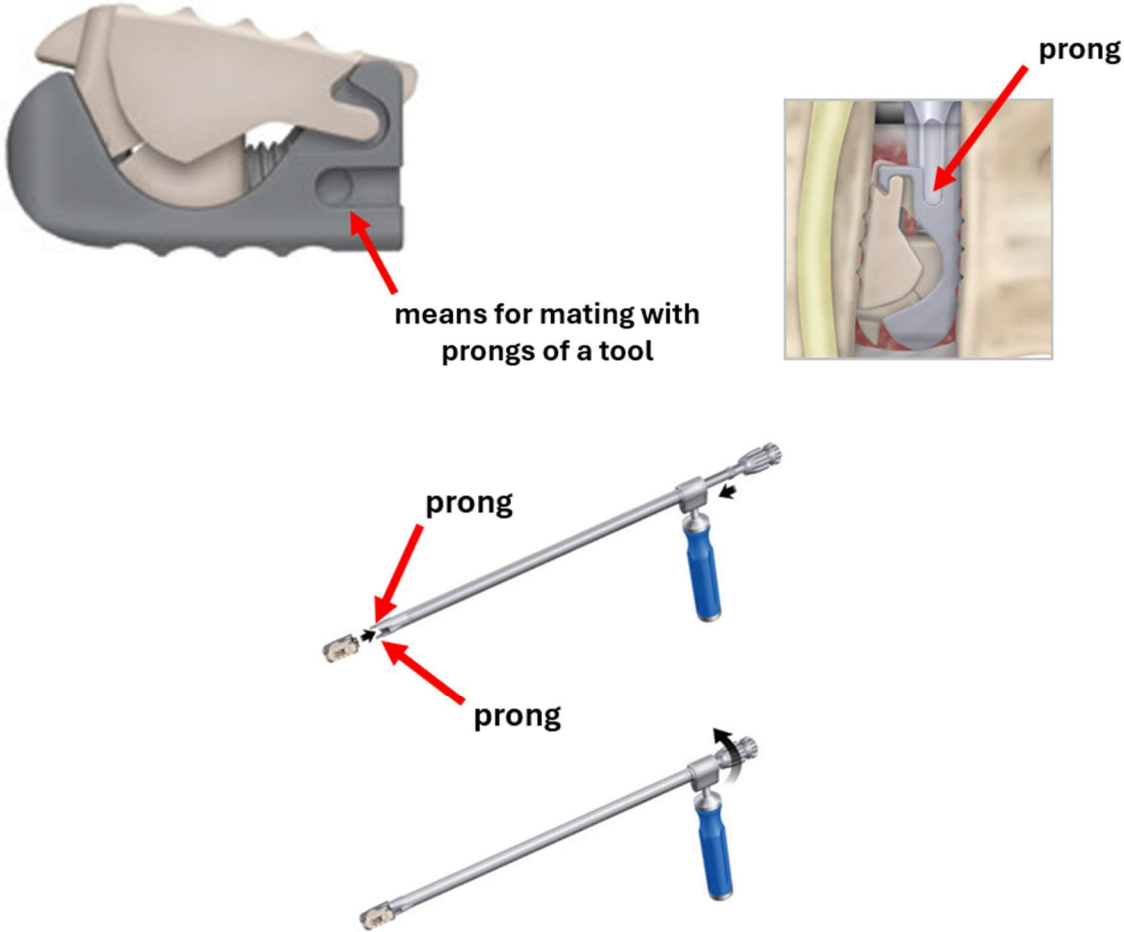
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 The diagrams illustrate a medical device and the tools used to attach it. The top left shows a perspective view of a device with a grey base and a tan upper part, featuring a series of teeth. A red arrow points to a feature labeled "means for mating with prongs of a tool". The top right is a cross-sectional view of the device in a body, with a red arrow pointing to a "prong". The bottom section shows two views of a long, thin metal tool with a blue handle and a T-joint. Red arrows point to the "prong" at the end of the tool in two different orientations. Figure 4 Attaching Implant

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

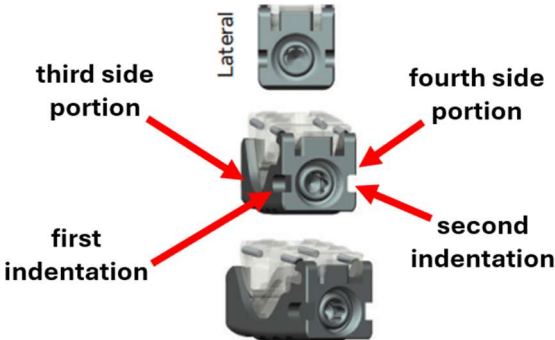
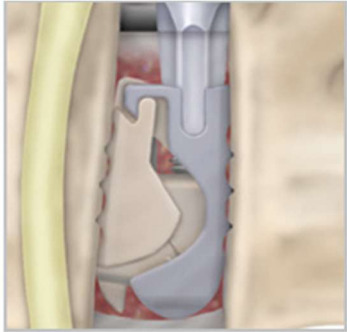
	U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
		<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
Row	Claim 7	
7	The device of claim 1, wherein the third and fourth side portions define first and second indentations configured to be grabbed by an insertion tool.	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The third and fourth side portions define first and second indentations configured to be grabbed by an insertion tool.   

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 Figure 4 Attaching Implant <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
Row	Claim 8	
8	A system comprising the device of claim 7, wherein the system further comprises: means for gripping and inserting the device.	The '284A Accused Instrumentalities include the limitations of claim 7 as described above. The '284A Accused Instrumentalities include a system that includes the device of claim 7. The system includes means for gripping and inserting the device. For example, Medtronic promotional material for the Elevate™ Spinal System instructs the user to “Thread the Inner Locking Tube into the Inserter in order to assemble the Inserter Assembly (Figure 3). Next attach the implant to the Inserter by turning the Inner Locking Tube clockwise (Figure 4). It is recommended that the implant be attached to the Inserter so the PEEK portion of the implant with x-ray markers is superior during the insertion. Carefully insert the implant into the disc space (Figure 5). A mallet may be used to facilitate placement. Advance the implant anteriorly so that the leading tip of the implant rests on the anterior apophyseal ring.”

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

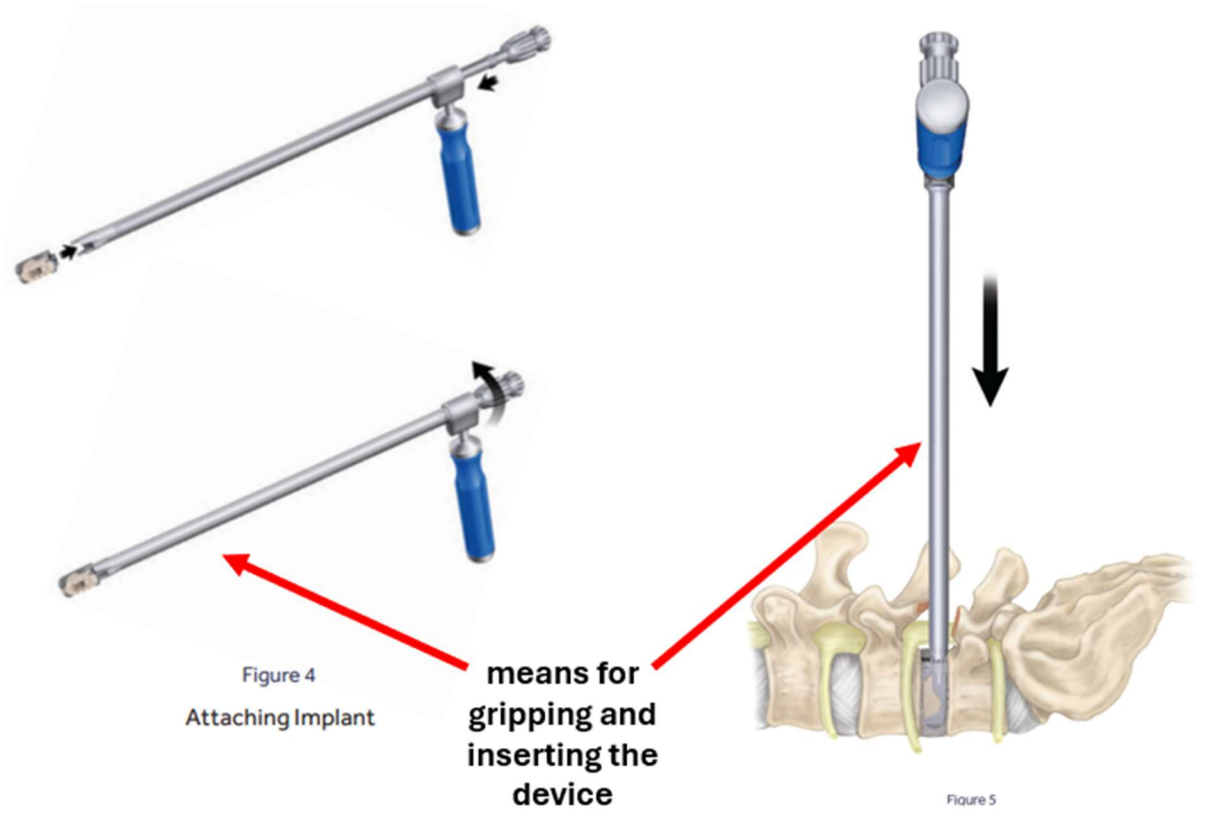
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 The image contains two diagrams, Figure 4 and Figure 5, illustrating a surgical device. Figure 4, titled 'Attaching Implant', shows two views of a long, thin metal rod with a blue handle at one end and a threaded end at the other. A red arrow points from the text 'means for gripping and inserting the device' to the blue handle. Figure 5 shows a cross-section of a vertebra with the device inserted into the vertebral body. A black arrow points downwards along the device, and a red arrow points from the text 'means for gripping and inserting the device' to the device. The text 'means for gripping and inserting the device' is located between the two figures. Figure 4 Attaching Implant means for gripping and inserting the device Figure 5 <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
Row	Claim 9	
9	The system of claim 8, and further comprising: means for turning the rotation screw.	The '284A Accused Instrumentalities include the limitations of claim 8 as described above. The '284A Accused Instrumentalities include means for turning the rotation screw. For example, Medtronic promotional material instructs users to “Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom” during insertion. This material further states “In order to expand the implant inside the disc space, insert the Inserter Drive Shaft along with the attached Torque Handle inside the Inserter Assembly (Figure 6). Next, turn the Torque Handle clockwise to expand the implant (Figure 7).”

U.S. Patent 10,016,284	Medtronic Infringing Activity¹
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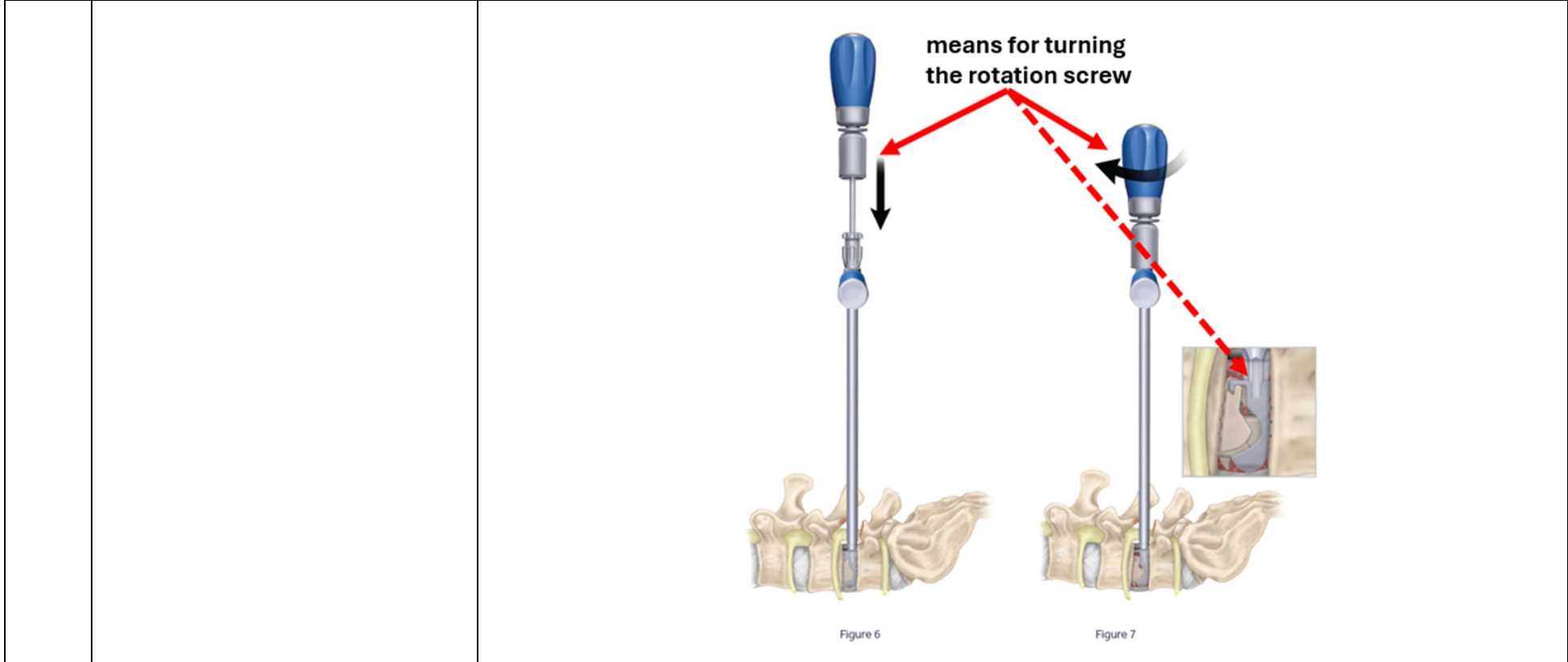


EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	it. of the Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom. STANDARD PEEK nose is fully recessed within the Titanium Alloy bottom. EXTRA-LORDOTIC CORRECT INCORRECT Screws are fully retracted <i>See also Claim 1, Row 1L.</i> <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

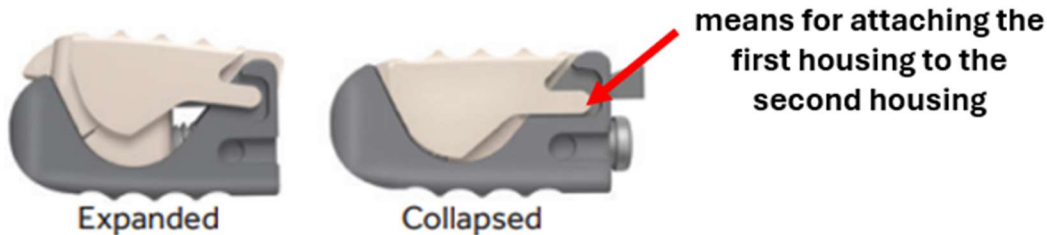
U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
Row	Claim 10	
10	The device of claim 1, and further comprising means for attaching the first housing to the second housing.	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The '284A Accused Instrumentalities include means for attaching the first housing to the second housing.  Expanded Collapsed means for attaching the first housing to the second housing <i>See also</i> Claim 1, Rows 1A and 1C. <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
Row	Claim 11	
11	The device of claim 1, wherein the first housing has a thickness that varies between the first end and the second end such that the	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The first housing has a thickness that varies between the first end and the second end such that the first interior surface has at least one curved portion and at least one straight portion.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
	first interior surface has at least one curved portion and at least one straight portion.	<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
Row	Claim 12	
12	The device of claim 1, wherein the wedge comprises substantially straight and parallel opposing side surfaces.	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The wedge comprises substantially straight and parallel opposing side surfaces.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
		side surfaces of wedge <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
Row	Claim 13	
13A	A method of operating the device of claim 1, the method comprising: inserting the device in a target surgical location between two vertebrae; and	The '284A Accused Instrumentalities include the limitations of claim 1 as described above. The '284A Accused Instrumentalities include a method of operating the device that includes inserting the device in a target surgical location between two vertebrae. For example, Medtronic promotional material for the Elevate™ Spinal System instructs the user to “Thread the Inner Locking Tube into the Inserter in order to assemble the Inserter Assembly (Figure 3). Next attach the implant to the Inserter by turning the Inner Locking

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

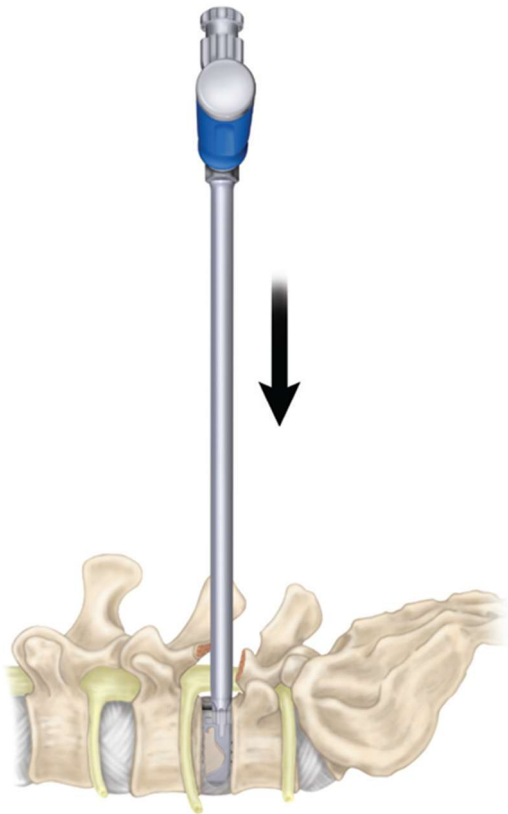
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	Tube clockwise (Figure 4). It is recommended that the implant be attached to the Inserter so the PEEK portion of the implant with x-ray markers is superior during the insertion. Carefully insert the implant into the disc space (Figure 5). A mallet may be used to facilitate placement. Advance the implant anteriorly so that the leading tip of the implant rests on the anterior apophyseal ring.”  Figure 5

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
		<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
13B	turning the rotation screw to drive the wedge to pivot the first housing away from the second housing while the device is positioned between the vertebrae.	The method includes turning the rotation screw to drive the wedge to pivot the first housing away from the second housing while the device is positioned between the vertebrae. For example, Medtronic promotional material instructs users to “Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom” during insertion. This material further states “In order to expand the implant inside the disc space, insert the Inserter Drive Shaft along with the attached Torque Handle inside the Inserter Assembly (Figure 6). Next, turn the Torque Handle clockwise to expand the implant (Figure 7).”

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

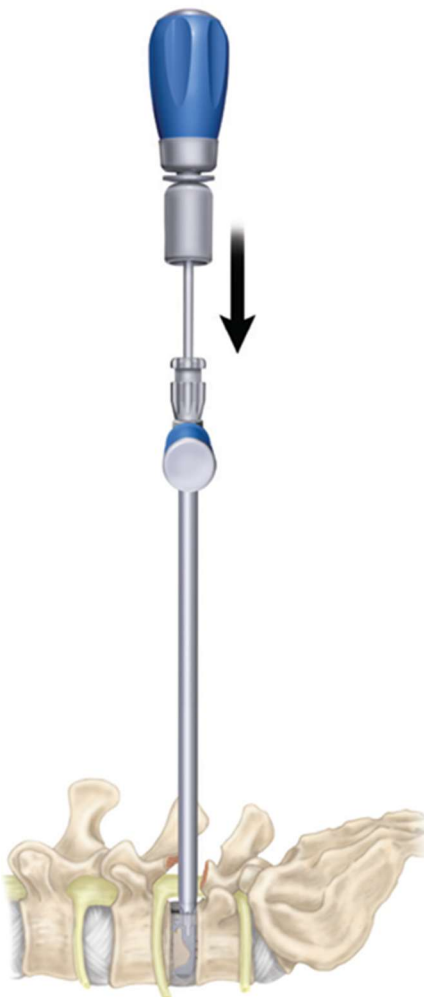
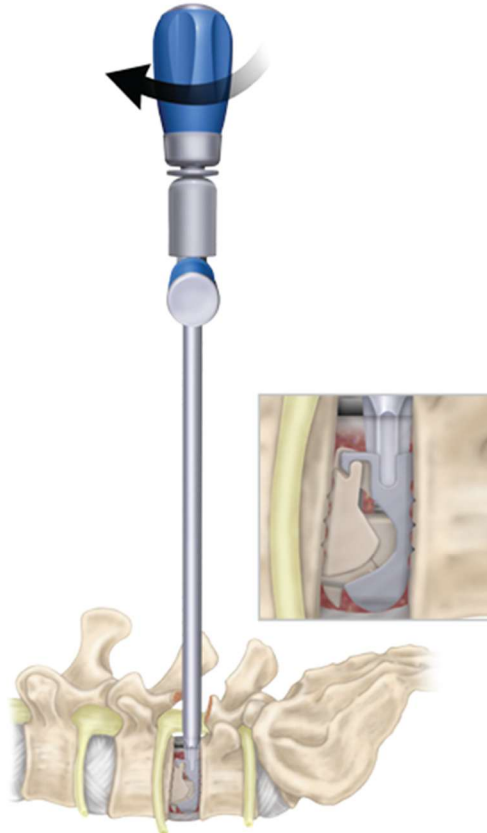
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 Figure 6  Figure 7

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

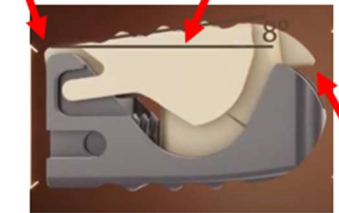
U.S. Patent 10,016,284		Medtronic Infringing Activity ¹
		<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
Row	Claim 19	
19A	An expandable interbody device comprising: a first housing extending from a first end to a second end, wherein the first housing has first and second end portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions,	To the extent the preamble is limiting, the '284A Accused Instrumentalities include an expandable interbody device. The '284A Accused Instrumentalities include a first housing extending from a first end to a second end, wherein the first housing has first and second end portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions. For example, Medtronic promotional material identifies the Elevate™ Spinal System as an “Expandable Interbody Device.” 

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

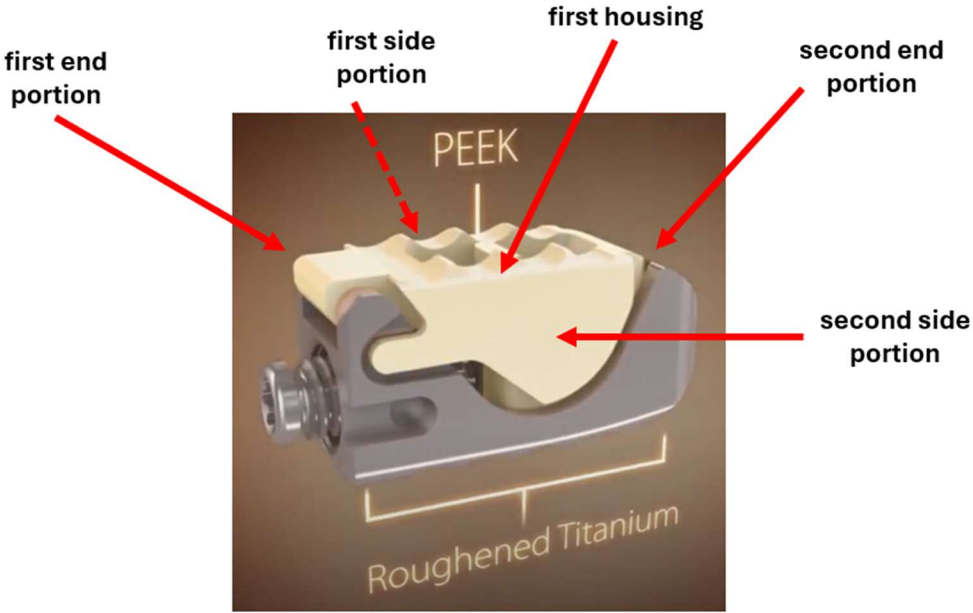
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho
19B	wherein the first housing has a first vertebral body engagement surface and has a first interior surface positioned on an opposite side of the first The first housing has a first vertebral body engagement surface and has a first interior surface positioned on an opposite side of the first housing than the first vertebral body engagement surface.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
housing than the first vertebral body engagement surface,	For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Teeth on the surface to reduce the likelihood of expulsion.” <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19C wherein the first housing defines a first bone material receiving area between the first	The first housing defines a first bone material receiving area between the first and second end portions and the first and second side portions.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

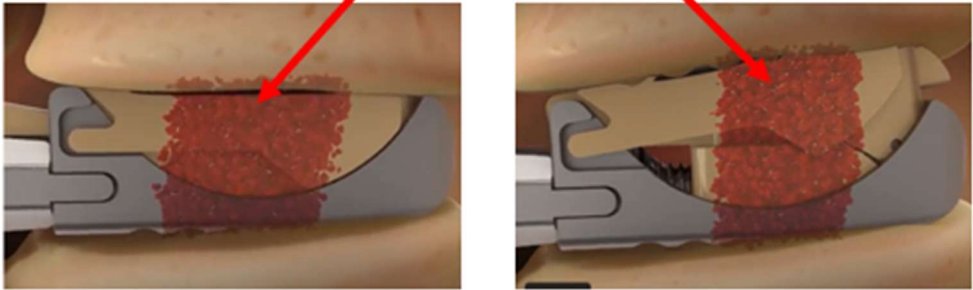
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
and second end portions and the first and second side portions;	For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Continuous apposition of bone-graft-to-endplate during expansion” and an “Open volume design for appropriate bone graft material.” This material further states “This expandable interbody device is intended to be used with autograft and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone. In addition to filling the implant, the disc space may be filled with appropriate bone grafting material” and “The hollow geometry of the implants allows them to be packed with autogenous and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone.” first bone material receiving area 

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

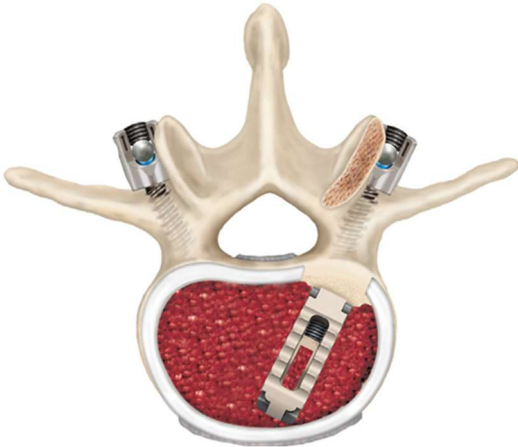
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	  <i>See also Row 19A.</i> <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19D	a second housing extending from a third end to a fourth end, wherein the second housing has third and fourth end portions positioned at the third and fourth ends, respectively, and has third and fourth side portions extending between the third and fourth end portions. The '284A Accused Instrumentalities include a second housing extending from a third end to a fourth end, wherein the second housing has third and fourth end portions positioned at the third and fourth ends, respectively, and has third and fourth side portions extending between the third and fourth end portions.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

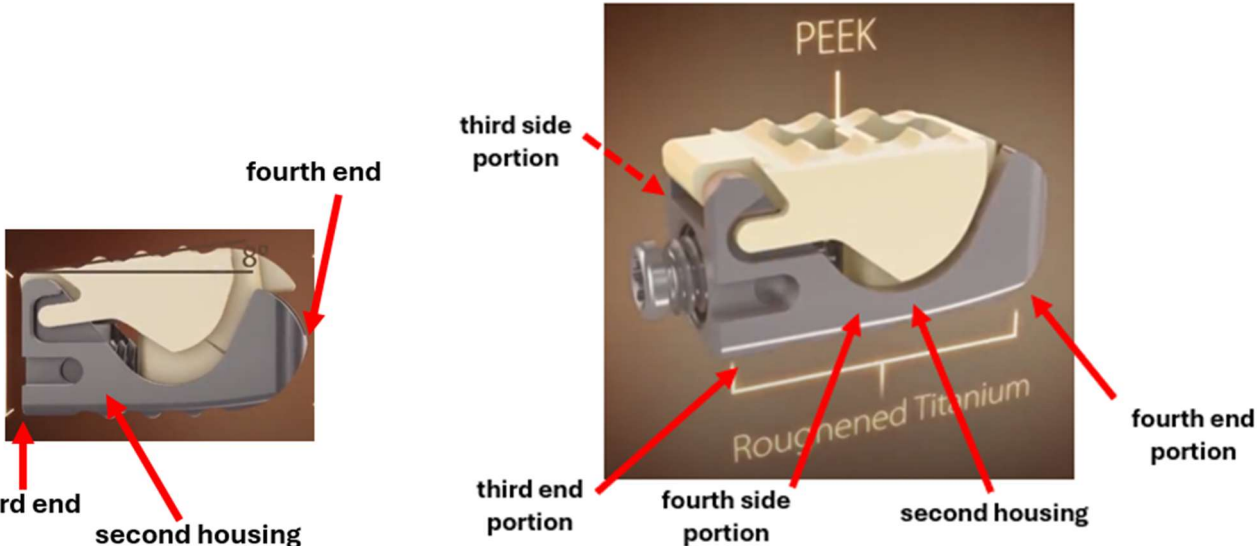
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
portions extending between the third and fourth end portions,	 <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19E wherein the second housing has a second vertebral body engagement surface and has a second interior surface positioned on an opposite side of the second housing than the	The second housing has a second vertebral body engagement surface and has a second interior surface positioned on an opposite side of the second housing than the second vertebral body engagement surface. For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Teeth on the surface to reduce the likelihood of expulsion.”

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

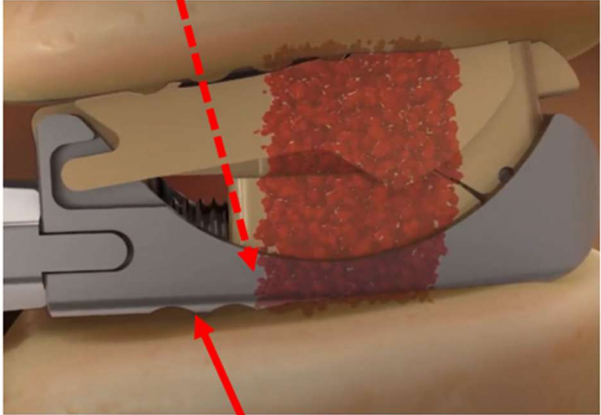
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
second vertebral body engagement surface,	second interior surface  second vertebral body engagement surface <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19F wherein the second housing defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions,	The second housing defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions. For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Continuous apposition of bone-graft-to-endplate during

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

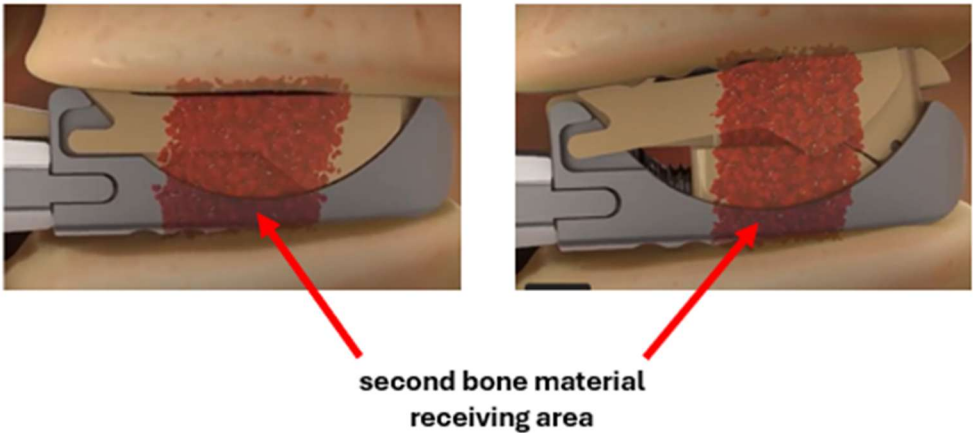
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	expansion” and an “Open volume design for appropriate bone graft material.” This material further states “This expandable interbody device is intended to be used with autograft and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone. In addition to filling the implant, the disc space may be filled with appropriate bone grafting material” and “The hollow geometry of the implants allows them to be packed with autogenous and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone.”  second bone material receiving area

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<i>See also Row 19D.</i> <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19G	wherein the third and fourth side portions define first and second indentations configured to be grabbed by an insertion tool, The third and fourth side portions define first and second indentations configured to be grabbed by an insertion tool.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

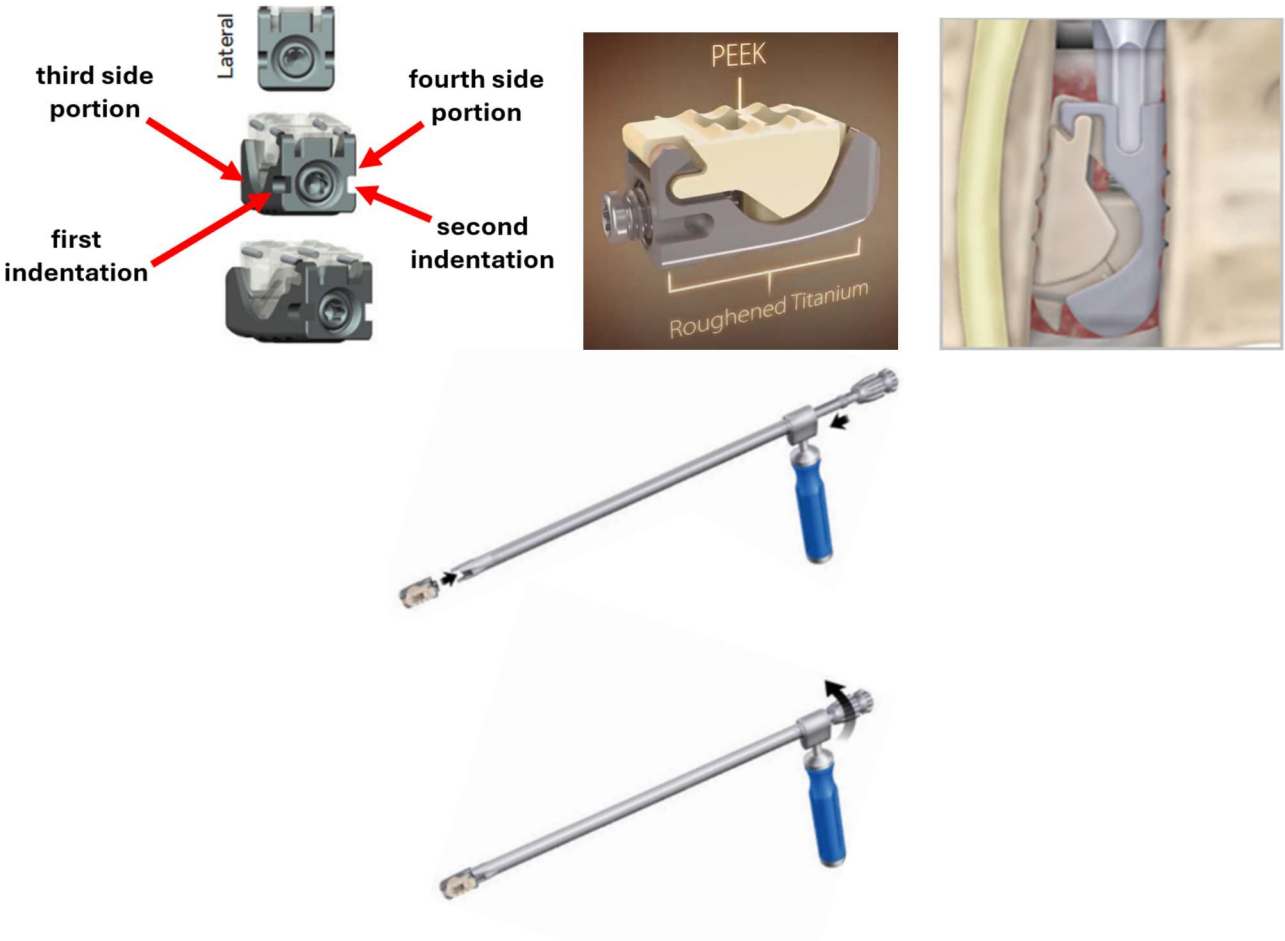
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 Figure 4 Attaching Implant

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

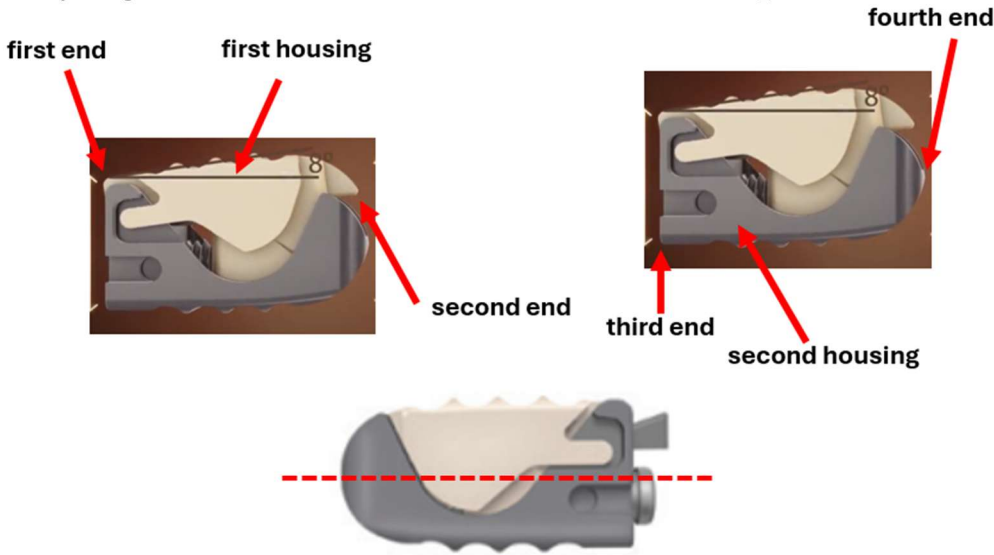
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19H wherein the first housing is aligned with the second housing such that the first end of the first housing is axially aligned with the third end of the second housing and the second end of the first housing is axially aligned with the fourth end of the second housing,	The first housing is aligned with the second housing such that the first end of the first housing is axially aligned with the third end of the second housing and the second end of the first housing is axially aligned with the fourth end of the second housing.  <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

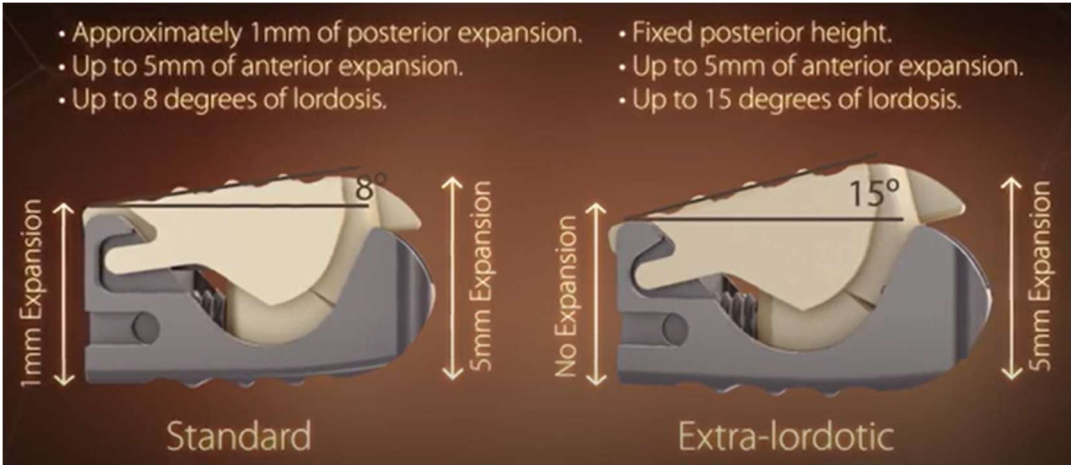
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
19I wherein the first end portion of the first housing is hingedly connected to the third end portion of the second housing such that the first housing can pivot with respect to the second housing so as to move the second end portion of the first housing away from the fourth end portion of the second housing,	The first end portion of the first housing is hingedly connected to the third end portion of the second housing such that the first housing can pivot with respect to the second housing so as to move the second end portion of the first housing away from the fourth end portion of the second housing. For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”  The diagram illustrates two cross-sectional views of spinal disc implants. The 'Standard' implant on the left is shown with a lordotic angle of 8°. It features a vertical double-headed arrow on the left labeled '1mm Expansion' and another on the right labeled '5mm Expansion'. The 'Extra-lordotic' implant on the right is shown with a lordotic angle of 15°. It features a vertical double-headed arrow on the left labeled 'No Expansion' and another on the right labeled '5mm Expansion'. Above the implants, two columns of text list their characteristics: - Standard: • Approximately 1mm of posterior expansion. • Up to 5mm of anterior expansion. • Up to 8 degrees of lordosis. - Extra-lordotic: • Fixed posterior height. • Up to 5mm of anterior expansion. • Up to 15 degrees of lordosis.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

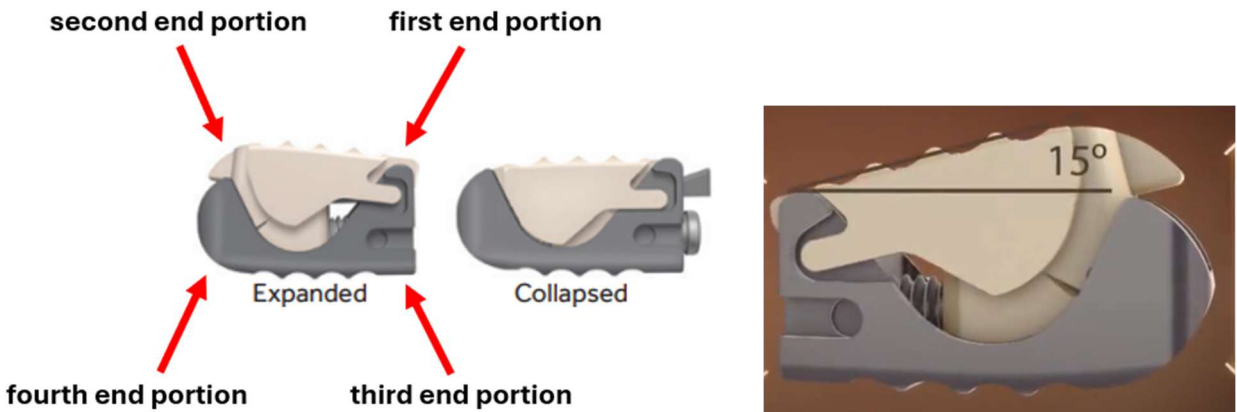
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 <i>See also Rows 19A and 19C.</i> <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19J	wherein the second housing defines a slot in the fourth end portion between the third and fourth side portions that is sized to receive the second end portion of the first housing such that the second end of the first housing and the fourth end of the second housing are axially aligned. For example, Medtronic promotional material states that the “PEEK nose is fully recessed within the Titanium Alloy bottom” in the collapsed position.

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

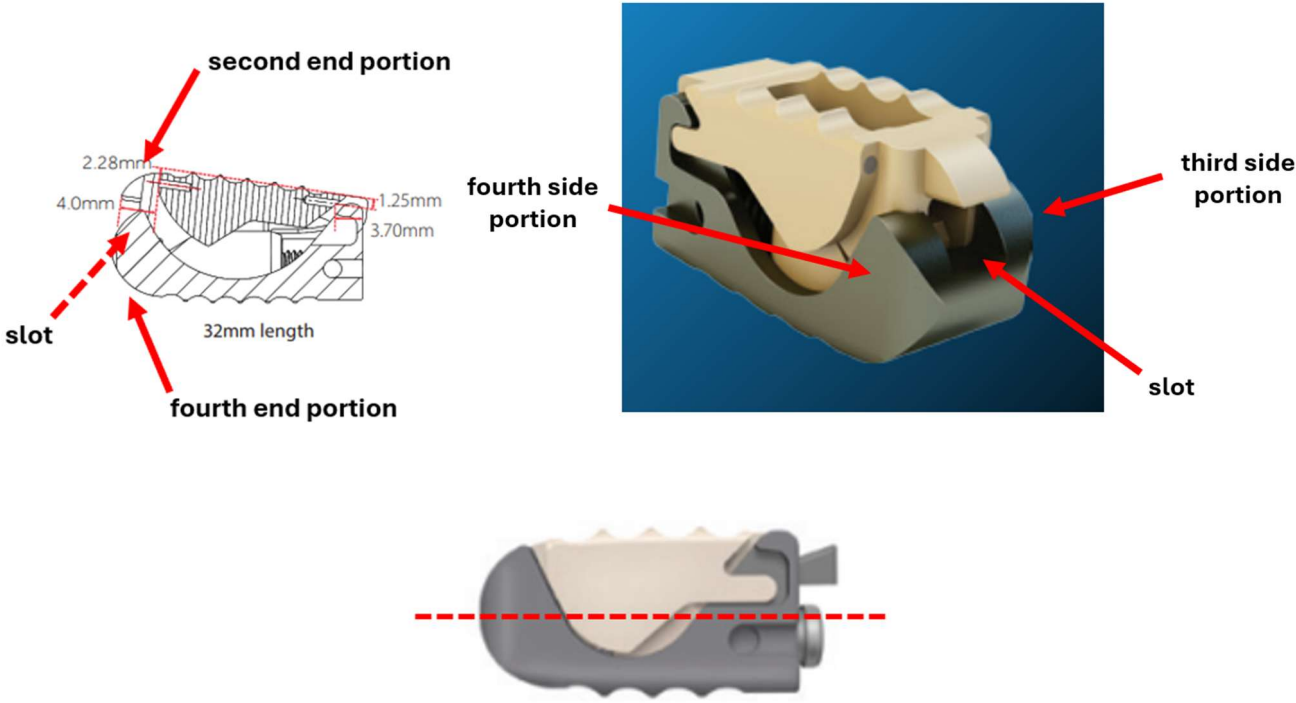
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
the second housing are axially aligned;	 The Medtronic Infringing Activity column contains three diagrams illustrating a medical device component. The top-left diagram is a cross-sectional view of a curved housing with the following labels and dimensions: 'second end portion' (top), 'fourth end portion' (bottom), 'slot' (left, indicated by a dashed red arrow), '32mm length' (bottom), '2.28mm' (top left), '4.0mm' (left), '1.25mm' (top right), and '3.70mm' (right). The top-right diagram is a 3D perspective view of the same component with labels: 'fourth side portion' (left), 'third side portion' (right), and 'slot' (bottom right). The bottom diagram is a 3D perspective view of the component from a different angle, with a dashed red line indicating a horizontal axis.

EXHIBIT C1 - U.S. PATENT 10,016,284 **Infringement Claim Chart**

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	ment. tip of the Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom. The diagram illustrates the correct and incorrect assembly of a Medtronic implant. It is divided into two columns: STANDARD and EXTRA-LORDOTIC. The top row, labeled 'CORRECT', shows the implant with the PEEK nose fully recessed within the Titanium Alloy bottom and the screws fully retracted. The bottom row, labeled 'INCORRECT', shows the implant with the PEEK nose not fully recessed and the screws not fully retracted, marked with a red 'X'. <i>See also Rows 19A, 19D, and 19H.</i> <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

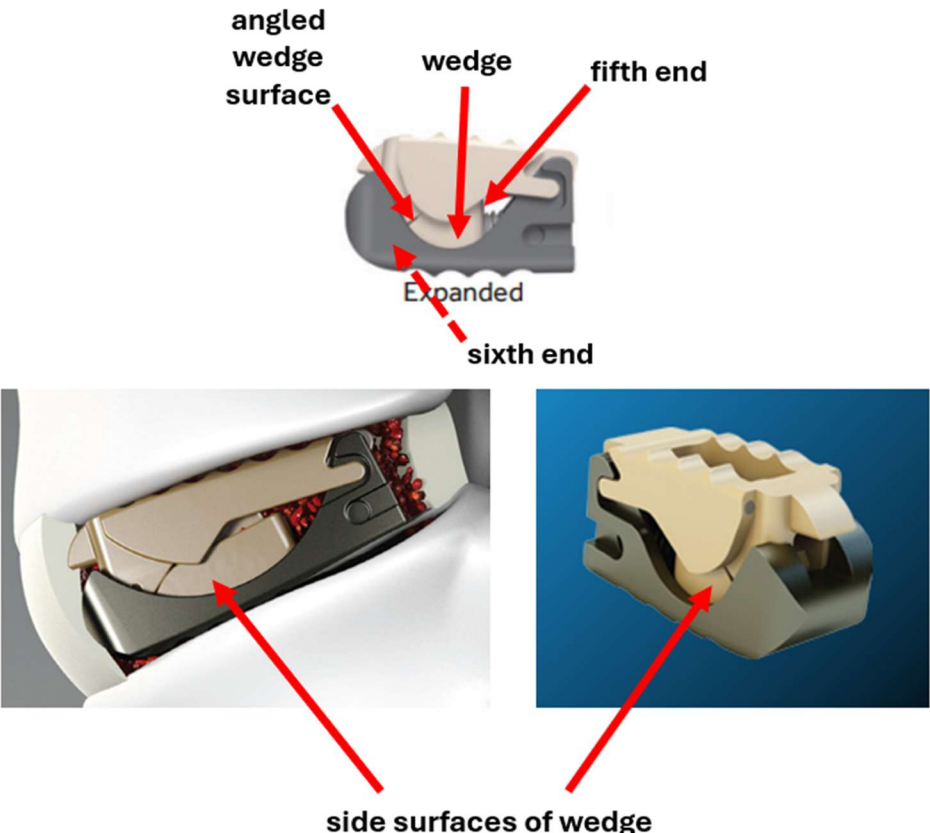
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
19K a wedge extending from a fifth end to a sixth end with an angled wedge surface extending along at least a portion of a distance between the fifth end and the sixth end and with first and second substantially straight and parallel opposing side surfaces,	The '284A Accused Instrumentalities include a wedge extending from a fifth end to a sixth end with an angled wedge surface extending along at least a portion of a distance between the fifth end and the sixth end and with first and second substantially straight and parallel opposing side surfaces. 

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

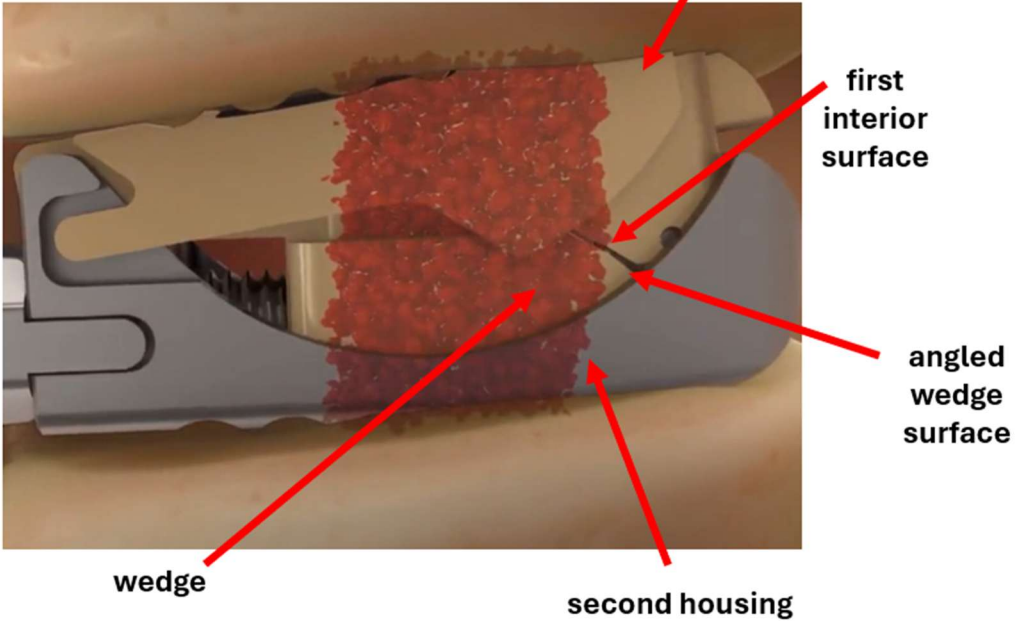
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19L wherein the wedge is positioned between the first housing and the second housing with the angled wedge surface facing the first interior surface of the first housing,	The wedge is positioned between the first housing and the second housing with the angled wedge surface facing the first interior surface of the first housing. 

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19M wherein the first interior surface of the first housing has an angled housing surface shaped to engage the angled wedge surface of the wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the first housing and is less than a distance from the third end to the fourth end of the second housing,	The first interior surface of the first housing has an angled housing surface shaped to engage the angled wedge surface of the wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the first housing and is less than a distance from the third end to the fourth end of the second housing. <i>See also Rows 19A, 19B, 19D, 19K-19L.</i>

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

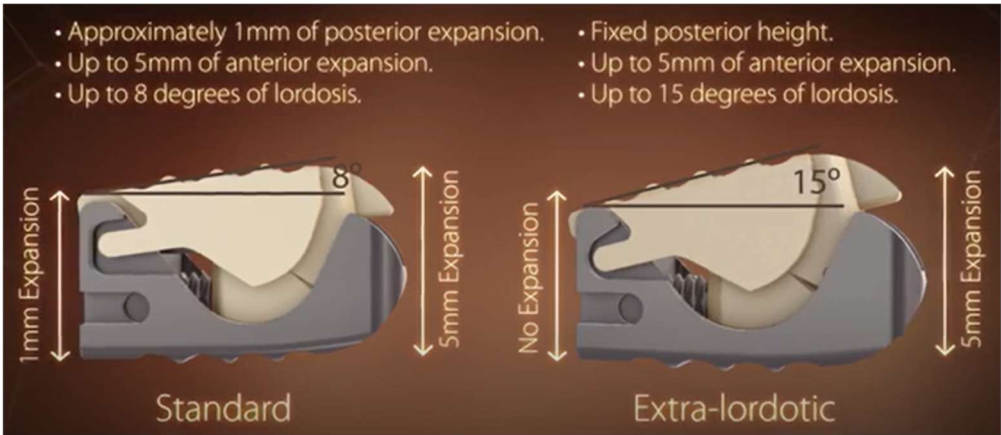
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	<u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
19N wherein the wedge is configured to slide within a spaced defined by the first and second housings in a direction toward the second and fourth ends of the first and second housings from a first wedge position that allows the first and second housings to pivot to a housing position that is substantially closed to a second wedge position whereby the angled wedge surface presses against the first interior surface of the first housing to hingedly open the first housing with respect to the second housing whereby the wedge remains axially confined within the space defined by the first and second housings in the first and second wedge positions; and	The wedge is configured to slide within a spaced defined by the first and second housings in a direction toward the second and fourth ends of the first and second housings from a first wedge position that allows the first and second housings to pivot to a housing position that is substantially closed to a second wedge position whereby the angled wedge surface presses against the first interior surface of the first housing to hingedly open the first housing with respect to the second housing whereby the wedge remains axially confined within the space defined by the first and second housings in the first and second wedge positions. For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”  The diagram illustrates two configurations of a spinal cage system. The 'Standard' configuration on the left shows a wedge-shaped cage with a 1mm posterior expansion, up to 5mm anterior expansion, and up to 8 degrees of lordosis. The 'Extra-lordotic' configuration on the right shows a similar cage with a fixed posterior height, up to 5mm anterior expansion, and up to 15 degrees of lordosis. Both configurations show 5mm expansion on the sides.

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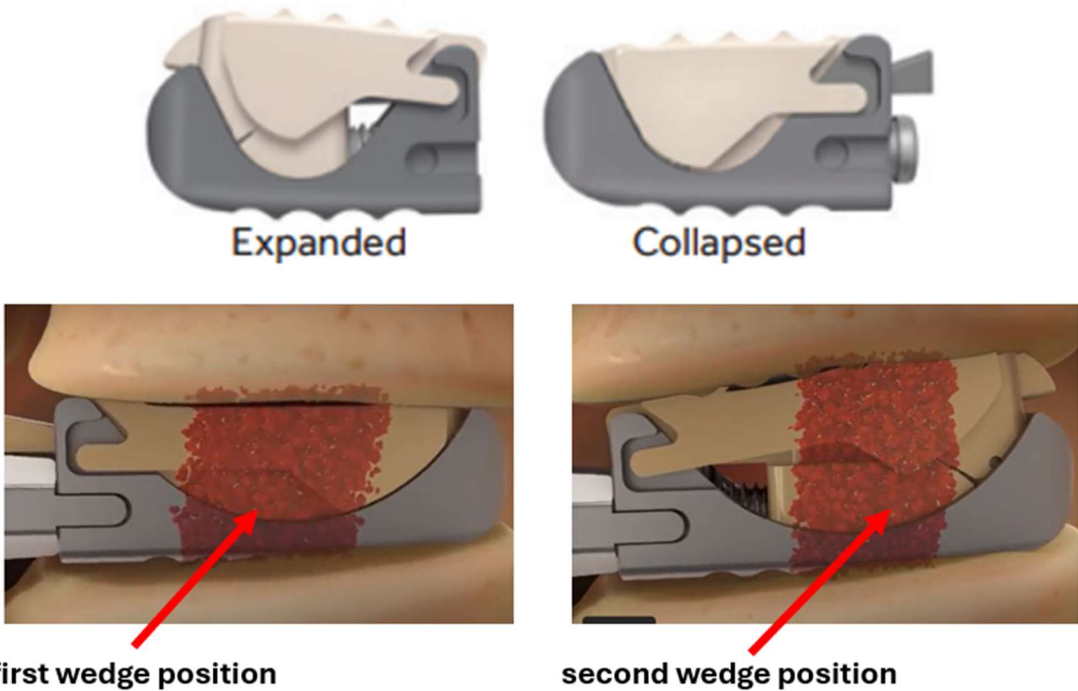
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
	 The diagrams illustrate the Medtronic Expandable Intervertebral Cage (EIVC) and its application. The top row shows the cage in its 'Expanded' and 'Collapsed' states. The bottom row shows two cross-sectional views of the cage implanted in a vertebral body. The 'first wedge position' shows the cage in its expanded state, with a red arrow pointing to the bone graft material. The 'second wedge position' shows the cage in its collapsed state, with a red arrow pointing to the bone graft material. See also Rows 19A, 19B, 19D, 19I, 19L, 19M. <u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

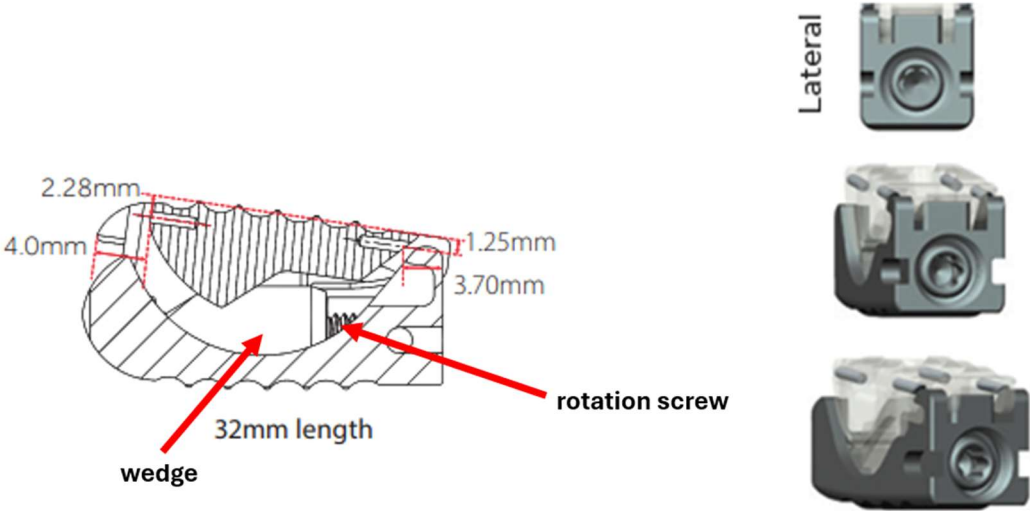
U.S. Patent 10,016,284	Medtronic Infringing Activity ¹
190 a rotation screw operably connected to the wedge and to the second housing, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the first housing and the second housing within the space defined by the first and second housings from the first wedge position to the second wedge position.	The '284A Accused Instrumentalities include a rotation screw operably connected to the wedge and to the second housing, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the first housing and the second housing within the space defined by the first and second housings from the first wedge position to the second wedge position. For example, Medtronic promotional material instructs users to “Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom” during insertion. This material further states “In order to expand the implant inside the disc space, insert the Inserter Drive Shaft along with the attached Torque Handle inside the Inserter Assembly (Figure 6). Next, turn the Torque Handle clockwise to expand the implant (Figure 7).” 

EXHIBIT C1 - U.S. PATENT 10,016,284 **Infringement Claim Chart**

U.S. Patent 10,016,284		Medtronic Infringing Activity ¹									
		ment. tip of the Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom. <table><thead><tr><th></th><th>STANDARD</th><th>EXTRA-LORDOTIC</th></tr></thead><tbody><tr><td>CORRECT</td><td> PEEK nose is fully recessed within the Titanium Alloy bottom. </td><td></td></tr><tr><td>INCORRECT</td><td></td><td></td></tr></tbody></table> Expanded Collapsed		STANDARD	EXTRA-LORDOTIC	CORRECT	PEEK nose is fully recessed within the Titanium Alloy bottom.		INCORRECT		
	STANDARD	EXTRA-LORDOTIC									
CORRECT	PEEK nose is fully recessed within the Titanium Alloy bottom.										
INCORRECT											

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Infringement Claim Chart

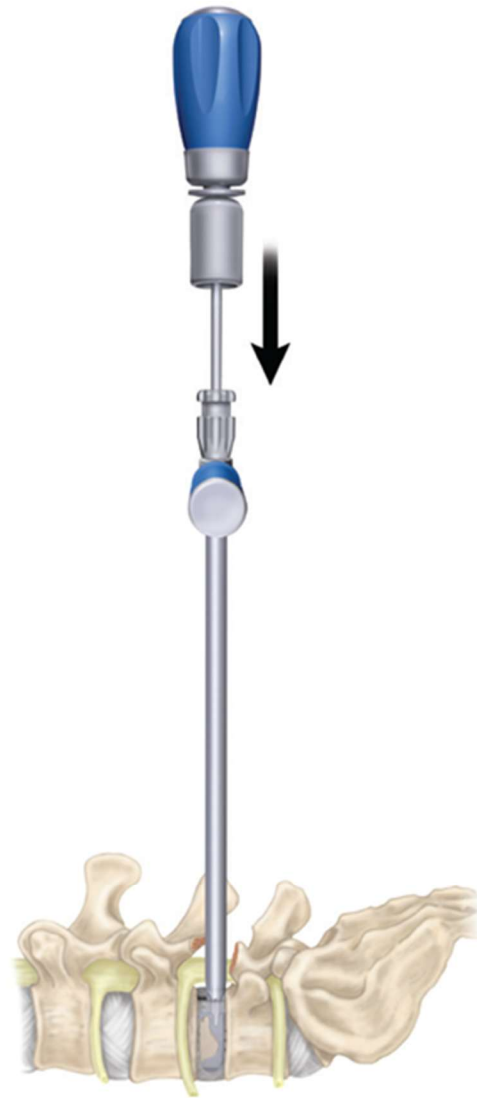


Figure 6

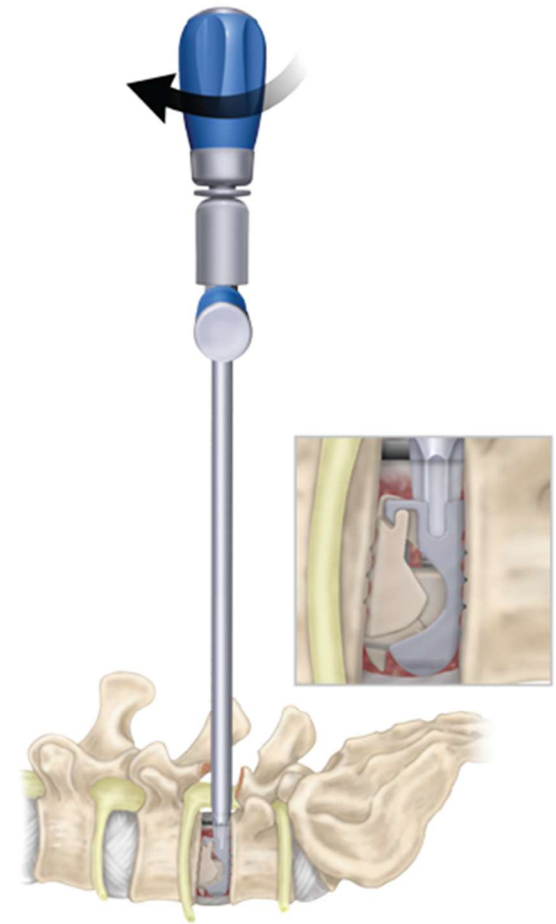
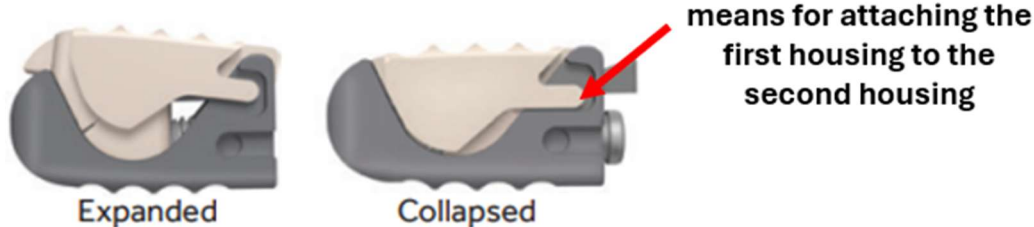


Figure 7

EXHIBIT C1 - U.S. PATENT 10,016,284
Infringement Claim Chart

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		Exemplary Sources http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho
Row	Claim 20	
20	The device of claim 19, and further comprising means for attaching the first housing to the second housing.	The '284A Accused Instrumentalities include the limitations of claim 19 as described above. The '284A Accused Instrumentalities include includes means for attaching the first housing to the second housing.  Expanded Collapsed means for attaching the first housing to the second housing <i>See also Claim 19, Rows 19A and 19D.</i> Exemplary Sources http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho