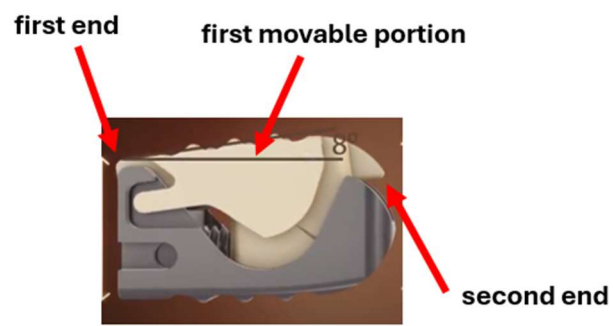


Exhibit F1

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1, 2}
Row	Claim 1	
1A	<p>An expandable intervertebral fusion device comprising:</p> <p>a first movable portion extending from a first end to a second end, wherein the first movable portion 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,</p>	<p>To the extent the preamble is limiting, the '633A Accused Instrumentalities include an expandable intervertebral fusion device. The '633A Accused Instrumentalities include a first movable portion extending from a first end to a second end, wherein the first movable portion 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.</p> <div style="text-align: center;">  </div>

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

² Moskowitz's infringement claim charts identify portions or components—such as first, second, and third guides and first, second, and third screws—based on images and other information from publicly available materials relating to the Accused Instrumentalities. In certain Accused Instrumentalities, multiple portions or components, including multiple guides and/or screws, may satisfy one or more of the asserted claim limitations and may therefore be interchangeable with one another. Accordingly, the identification of any particular portion or component in these claim charts is exemplary and is not intended to exclude other product portions or components that meet the same claim requirements.

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

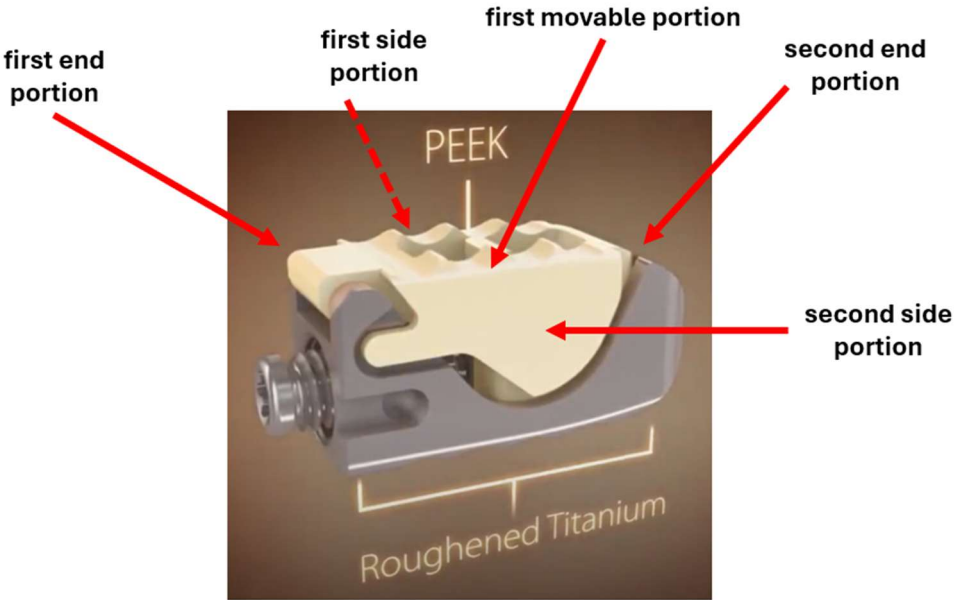
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
1B	<p>wherein the first movable portion has a first vertebral body engagement surface and has a first interior surface positioned on an opposite side</p> <p>The first movable portion has a first vertebral body engagement surface and has a first interior surface positioned on an opposite side of the first movable portion than the first vertebral body engagement surface.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

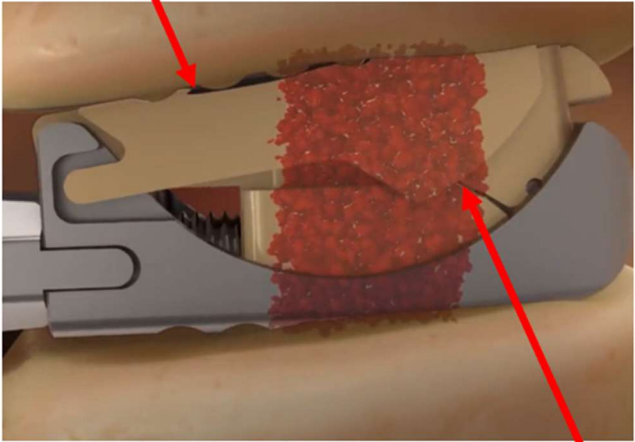
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>of the first movable portion than the first vertebral body engagement surface;</p>	<p>For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Teeth on the surface to reduce the likelihood of expulsion.”</p> <div data-bbox="1016 451 1705 1127"><p style="text-align: center;">first vertebral body engagement surface</p><p style="text-align: right;">first interior surface</p></div> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

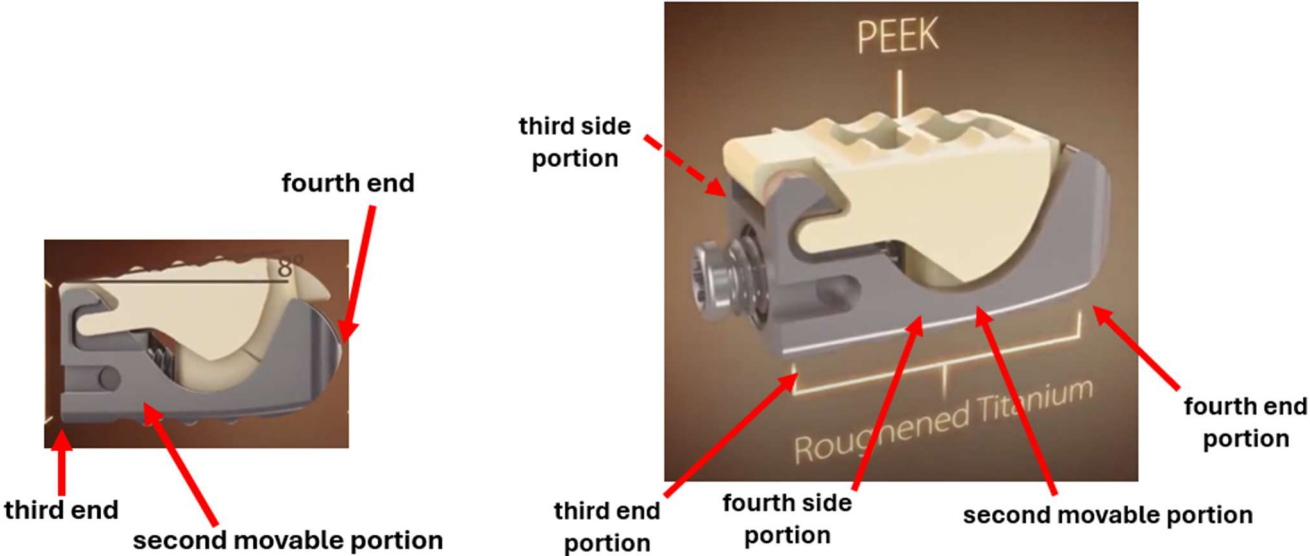
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>1C</p> <p>a second movable portion extending from a third end to a fourth end, wherein the second movable portion has third and fourth end portions positioned at the third and fourth ends, respectively, and has third and fourth side portions extending between the third and fourth end portions,</p>	<p>The '633A Accused Instrumentalities include a second movable portion extending from a third end to a fourth end, wherein the second movable portion 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.</p> <div style="text-align: center;">  </div> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p>
<p>1D</p> <p>wherein the second movable portion has a second vertebral body engagement surface and</p>	<p>The second movable portion has a second vertebral body engagement surface and has a second interior surface positioned on an opposite side of the second movable portion than the second vertebral body engagement surface.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

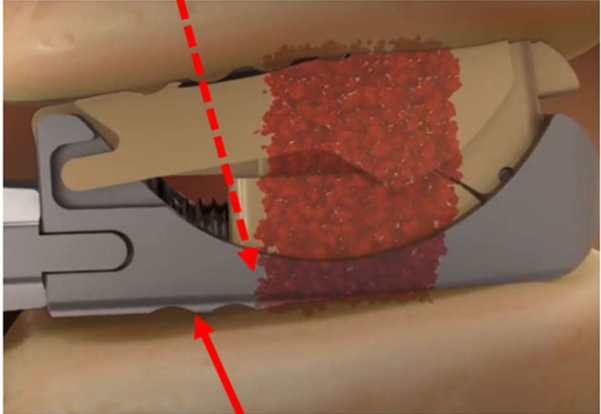
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>has a second interior surface positioned on an opposite side of the second movable portion than the second vertebral body engagement surface,</p>	<div data-bbox="1037 370 1671 911"> <p style="text-align: center;">second interior surface</p>  <p style="text-align: center;">second vertebral body engagement surface</p> </div> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p>
<p>1E wherein the first movable portion is aligned with the second movable portion such that the first end of the first movable portion is axially aligned with the third end of the</p>	<p>The first movable portion is aligned with the second movable portion such that the first end of the first movable portion is axially aligned with the third end of the second movable portion and the second end of the first movable portion is axially aligned with the fourth end of the second movable portion.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

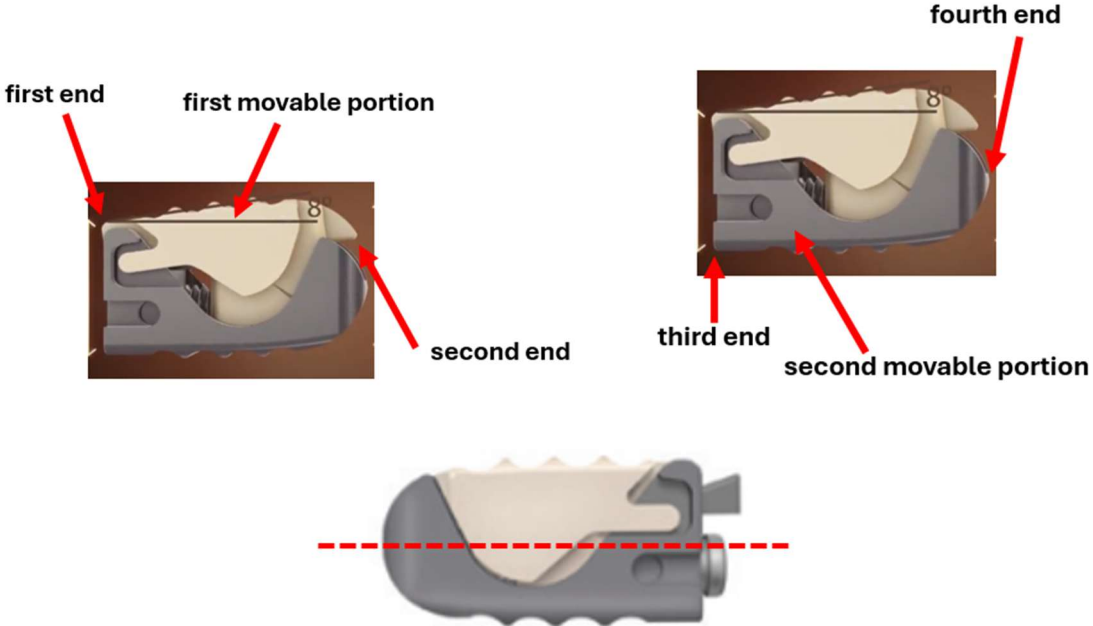
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>second movable portion and the second end of the first movable portion is axially aligned with the fourth end of the second movable portion,</p>	 <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>1F wherein the first end portion of the first movable portion is hingedly connected to the third end portion of the second</p>	<p>The first end portion of the first movable portion is hingedly connected to the third end portion of the second movable portion such that the first movable portion can pivot with respect to the second movable portion so as to move the second end portion of the first movable portion away from the fourth end portion of the second movable portion.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

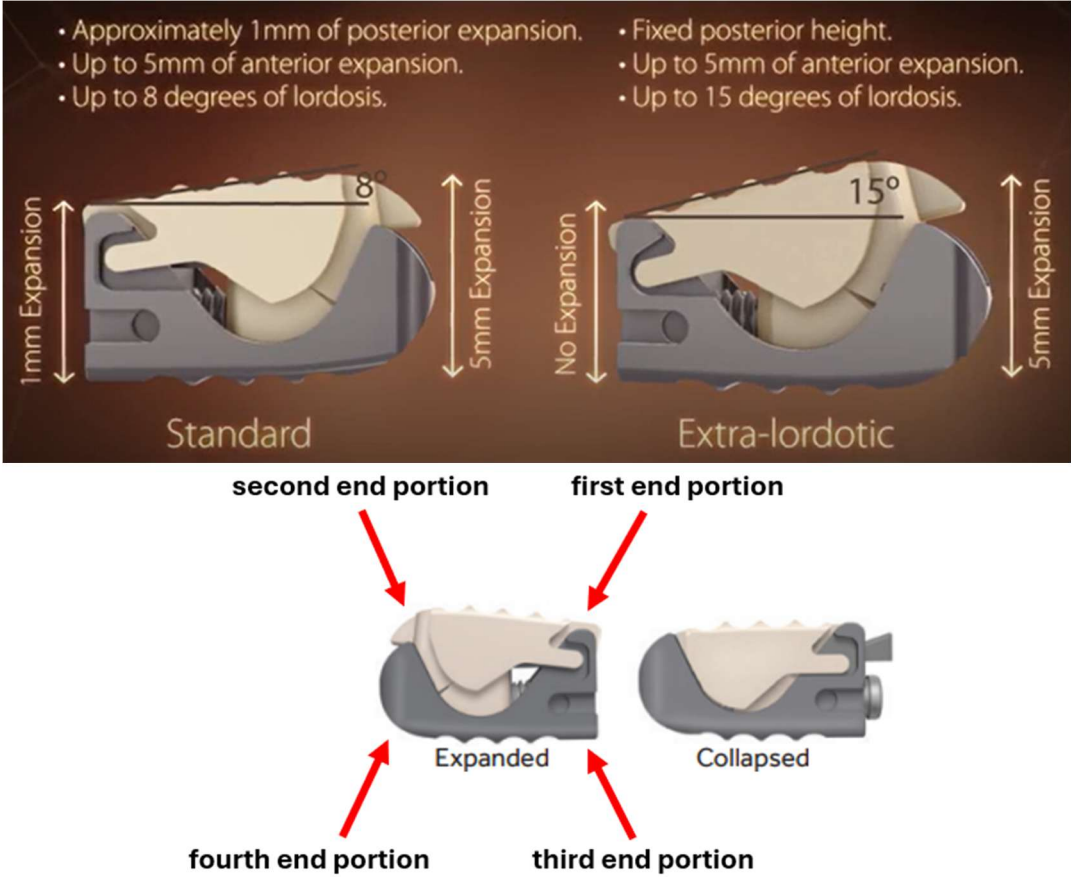
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>movable portion such that the first movable portion can pivot with respect to the second movable portion so as to move the second end portion of the first movable portion away from the fourth end portion of the second movable portion,</p>	<p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p>  <p>The diagram illustrates the mechanical properties and components of the Medtronic Elevate Spinal System. It compares two configurations: Standard and Extra-lordotic.</p> <ul style="list-style-type: none"> Standard Configuration: <ul style="list-style-type: none"> Approximately 1mm of posterior expansion. Up to 5mm of anterior expansion. Up to 8 degrees of lordosis. Extra-lordotic Configuration: <ul style="list-style-type: none"> Fixed posterior height. Up to 5mm of anterior expansion. Up to 15 degrees of lordosis. <p>Below the comparison, a diagram shows the device in two states: Expanded and Collapsed. Red arrows point to the following components:</p> <ul style="list-style-type: none"> second end portion: Points to the top surface of the expanded device. first end portion: Points to the top surface of the collapsed device. fourth end portion: Points to the bottom surface of the expanded device. third end portion: Points to the bottom surface of the collapsed device.

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

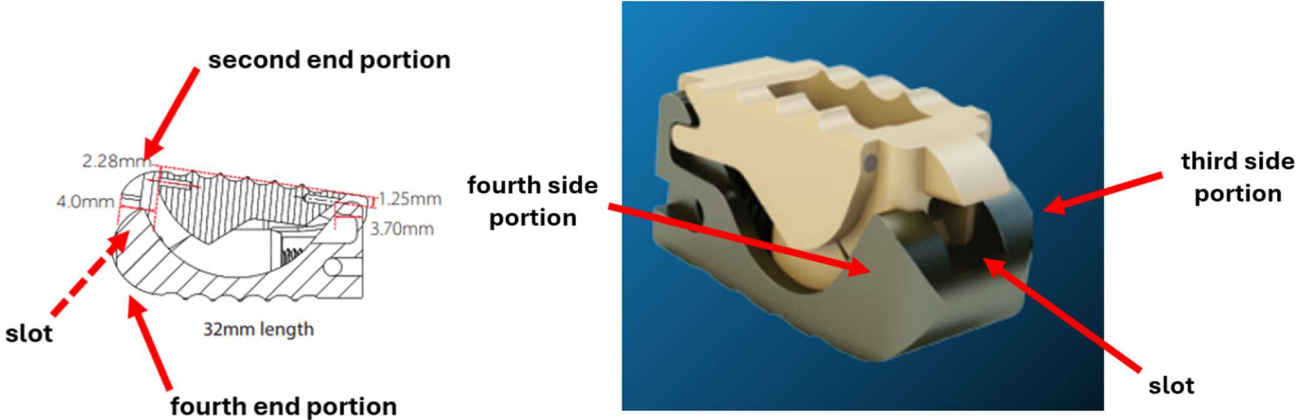
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><i>See also</i> Rows 1A and 1C.</p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>1G</p> <p>wherein the second movable portion 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 movable portion such that the second end of the first movable portion and the fourth end of the second movable portion are axially aligned; and</p>	<p>The second movable portion 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 movable portion such that the second end of the first movable portion and the fourth end of the second movable portion are axially aligned.</p> <p>For example, Medtronic promotional material states that the “PEEK nose is fully recessed within the Titanium Alloy bottom” in the collapsed position.</p> <div style="text-align: center;">  </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

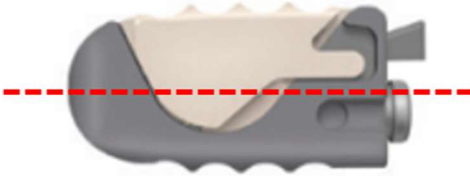
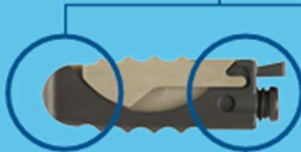
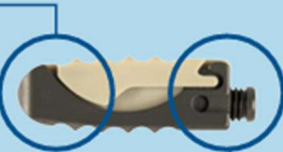
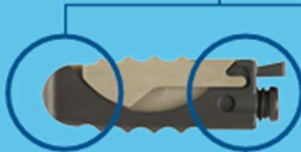
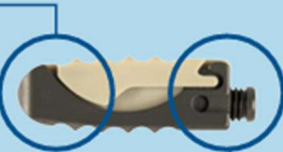
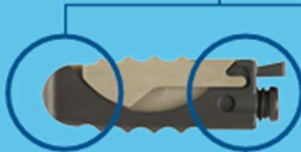
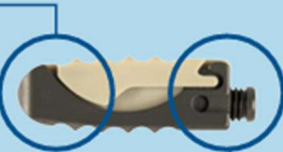
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1, 2}									
	<div></div> <div><p>Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom.</p></div> <div><p>ment. tip of the</p></div> <div><table><tr><th></th><th>STANDARD</th><th>EXTRA-LORDOTIC</th></tr><tr><td>CORRECT</td><td><p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p></td><td><p>Screws are fully retracted</p></td></tr><tr><td>INCORRECT</td><td></td><td></td></tr></table></div>		STANDARD	EXTRA-LORDOTIC	CORRECT	<p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> 	 <p>Screws are fully retracted</p>	INCORRECT		
	STANDARD	EXTRA-LORDOTIC								
CORRECT	<p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> 	 <p>Screws are fully retracted</p>								
INCORRECT										

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><i>See also</i> Rows 1A, 1C, and 1E.</p> <p><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</p>
<p>1H</p> <p>a mechanism that pivotably moves the first movable portion and the second movable portion with respect to each other to expand a dimension of the expandable intervertebral fusion device, wherein the mechanism comprises:</p>	<p>The '633A Accused Instrumentalities include a mechanism that pivotably moves the first movable portion and the second movable portion with respect to each other to expand a dimension of the expandable intervertebral fusion device. The mechanism includes the features described in Rows 1I-1M, below.</p> <p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="821 318 1885 779"> <p> <ul style="list-style-type: none"> • Approximately 1mm of posterior expansion. • Up to 5mm of anterior expansion. • Up to 8 degrees of lordosis. </p> <p> <ul style="list-style-type: none"> • Fixed posterior height. • Up to 5mm of anterior expansion. • Up to 15 degrees of lordosis. </p> <p>Standard Extra-lordotic</p> </div> <div data-bbox="961 841 1751 1101"> <p>Expanded Collapsed</p> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="737 321 1323 686"> </div> <div data-bbox="1388 321 1974 686"> </div> <p data-bbox="690 769 963 802"><u>Exemplary Sources</u></p> <p data-bbox="690 808 1995 964"> 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 </p>
<p data-bbox="107 987 142 1019">1I</p> <p data-bbox="212 987 667 1219">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,</p>	<p data-bbox="690 987 2013 1101">The '633A 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.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

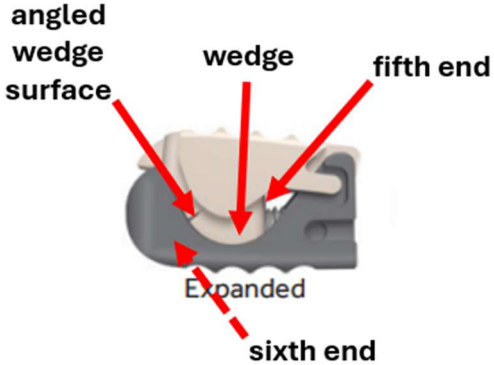
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p>The diagram illustrates a cross-section of a vertebral body with an expandable cage (ELEVATE) inserted. A wedge is positioned between the first and second movable portions of the cage. The wedge's angled surface is oriented towards the first interior surface of the first movable portion. The wedge is labeled with 'angled wedge surface', 'wedge', 'fifth end', and 'sixth end'. The cage is labeled 'Expanded'.</p> <p><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</p>
<p>1J</p> <p>wherein the wedge is positioned between the first movable portion and the second movable portion with the angled wedge surface facing the first interior surface of the first movable portion,</p>	<p>The wedge is positioned between the first movable portion and the second movable portion with the angled wedge surface facing the first interior surface of the first movable portion.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

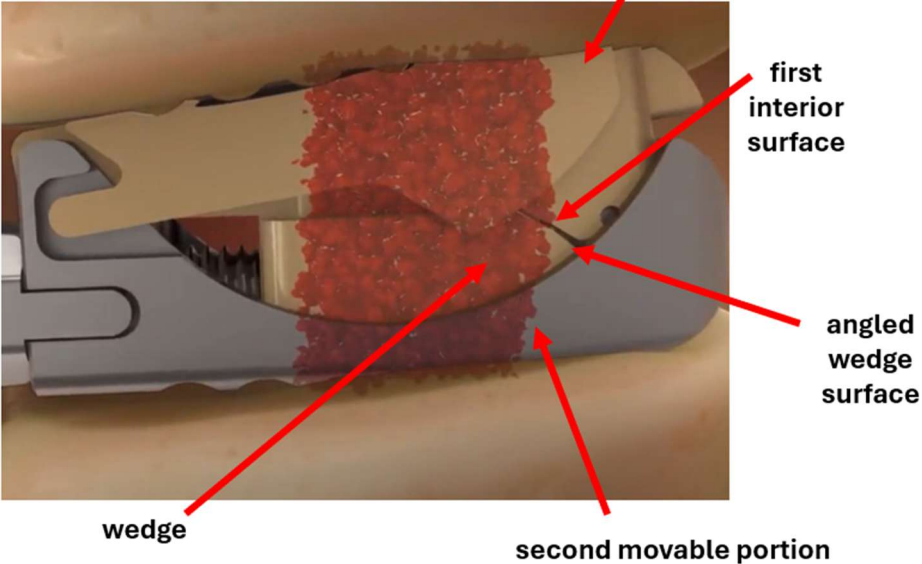
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p>first movable portion</p> <p>first interior surface</p> <p>angled wedge surface</p> <p>wedge</p> <p>second movable portion</p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>1K</p> <p>wherein the first interior surface of the first movable portion has an angled movable portion surface shaped to engage the angled wedge surface of the</p>	<p>The first interior surface of the first movable portion has an angled movable portion surface shaped to engage the angled wedge surface of the wedge, wherein the distance from the fifth end to the sixth end of the wedge that is less than a distance from the first end to the second end of the first movable portion and is less than a distance from the third end to the fourth end of the second movable portion.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

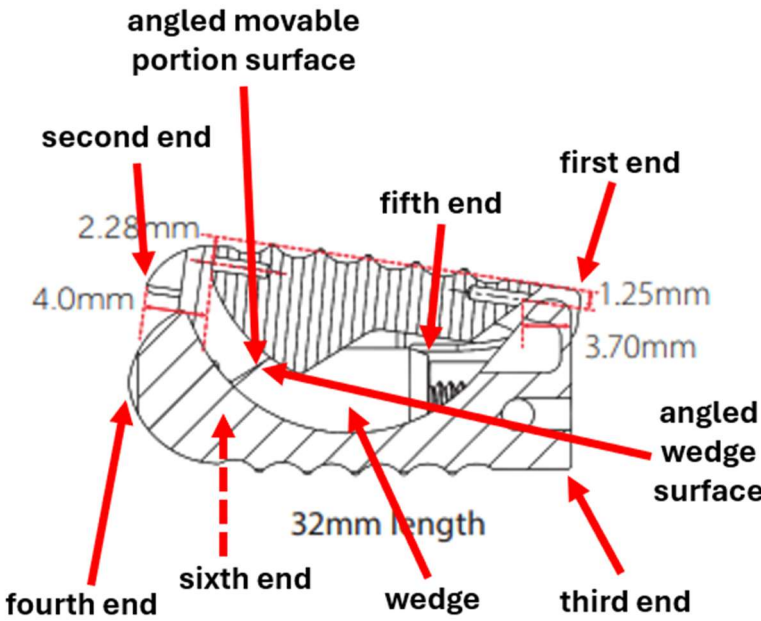
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the first movable portion and is less than a distance from the third end to the fourth end of the second movable portion,</p>	 <p>angled movable portion surface</p> <p>second end</p> <p>2.28 mm</p> <p>4.0 mm</p> <p>fifth end</p> <p>first end</p> <p>1.25 mm</p> <p>3.70 mm</p> <p>angled wedge surface</p> <p>32 mm length</p> <p>fourth end</p> <p>sixth end</p> <p>wedge</p> <p>third end</p> <p>See also Rows 1A-1C, 1I.</p> <p><u>Exemplary Sources</u></p> <p>http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p> <p>https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>1L wherein the wedge is configured to slide within a</p>	<p>The wedge is configured to slide within a space defined between the first and second movable portions in a direction toward the second and fourth ends of the first and second movable</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

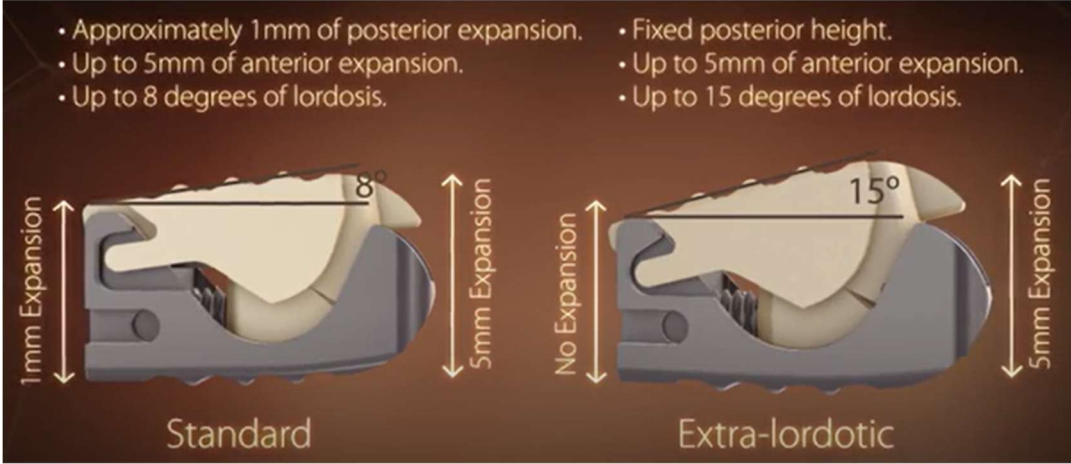
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>space defined between the first and second movable portions in a direction toward the second and fourth ends of the first and second movable portions from a first wedge position that allows the first and second movable portions to pivot to a device position that is substantially closed to a second wedge position whereby the angled wedge surface presses against the first interior surface of the first movable portion to hingedly open the first movable portion with respect to the second movable portion whereby the wedge remains axially confined within the space defined by the first and second movable portions in the first and second wedge positions; and</p>	<p>portions from a first wedge position that allows the first and second movable portions to pivot to a device position that is substantially closed to a second wedge position whereby the angled wedge surface presses against the first interior surface of the first movable portion to hingedly open the first movable portion with respect to the second movable portion whereby the wedge remains axially confined within the space defined by the first and second movable portions in the first and second wedge positions.</p> <p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p>  <p>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 arrow on the left labeled '1mm Expansion' and a vertical arrow 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 arrow on the left labeled 'No Expansion' and a vertical arrow on the right labeled '5mm Expansion'. Above the implants, two columns of text list their characteristics:</p> <ul style="list-style-type: none"> • Approximately 1mm of posterior expansion. • Up to 5mm of anterior expansion. • Up to 8 degrees of lordosis. <ul style="list-style-type: none"> • Fixed posterior height. • Up to 5mm of anterior expansion. • Up to 15 degrees of lordosis.

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

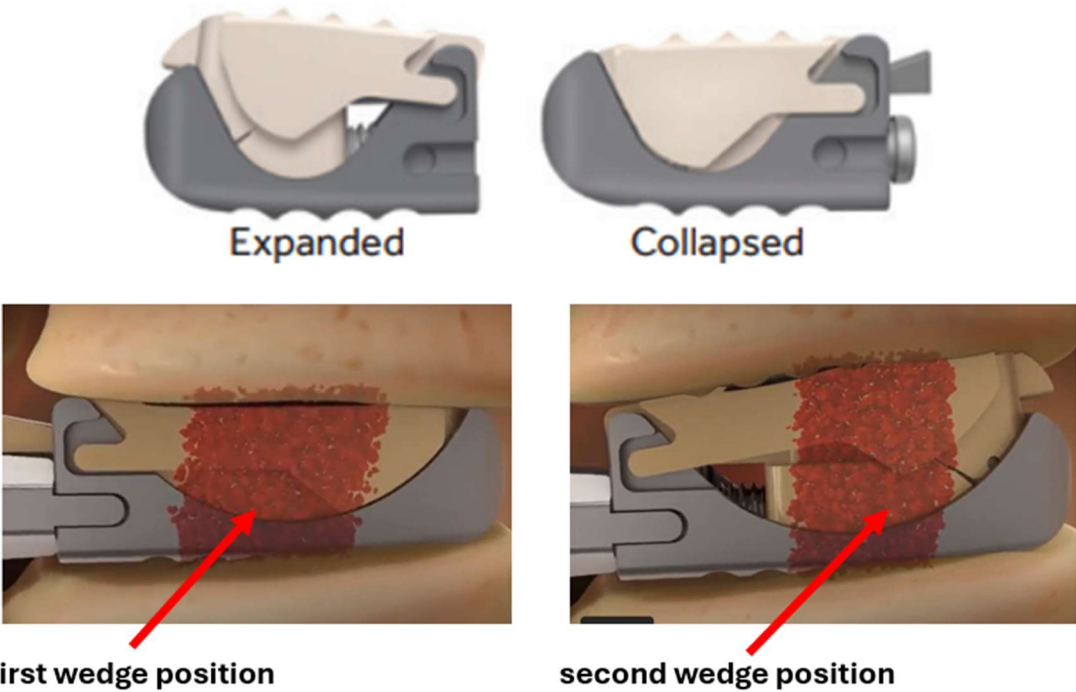
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="825 337 1894 1024"><p>The diagrams illustrate the Medtronic ELEVATE expandable cage. The top row shows the cage in its 'Expanded' and 'Collapsed' states. The bottom row shows two cross-sectional views of the cage implanted in a vertebral body. The left view is labeled 'first wedge position' and the right view is labeled 'second wedge position'. Red arrows point to the respective wedge positions within the vertebral body.</p></div> <p data-bbox="688 1068 1161 1101"><i>See also Rows 1A-1C, 1F, 1J-1K.</i></p> <p data-bbox="688 1149 963 1182"><u>Exemplary Sources</u></p> <p data-bbox="688 1190 1997 1344">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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

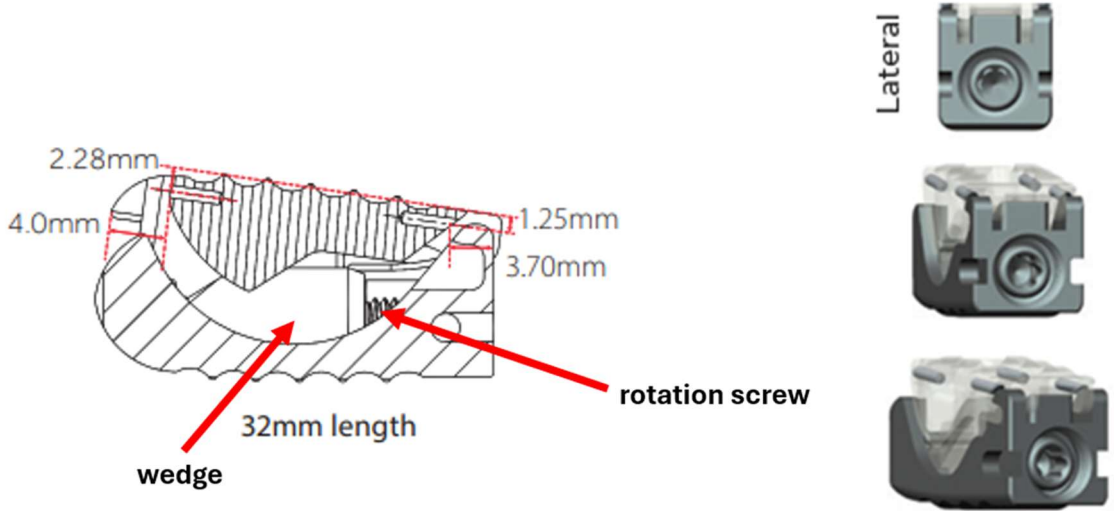
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>1M a rotation screw operably connected to the wedge and to the second movable portion, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the first movable portion and the second movable portion within the space defined between the first and second movable portions from the first wedge position to the second wedge position.</p>	<p>The '633A Accused Instrumentalities include a rotation screw operably connected to the wedge and to the second movable portion, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the first movable portion and the second movable portion within the space defined between the first and second movable portions from the first wedge position to the second wedge position.</p> <p>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).”</p> 

EXHIBIT F1 - U.S. PATENT 10,426,633 **Infringement Claim Chart**

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="945 337 1743 1344"> <p>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.</p> <p>ment. tip of the</p> <div data-bbox="1134 509 1743 1079"> <div> <p>STANDARD</p> <p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> <p>CORRECT</p> <p>INCORRECT</p> </div> <div> <p>EXTRA-LORDOTIC</p> <p>Screws are fully retracted</p> </div> </div> <div data-bbox="1050 1149 1654 1344"> <p>Expanded Collapsed</p> </div> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

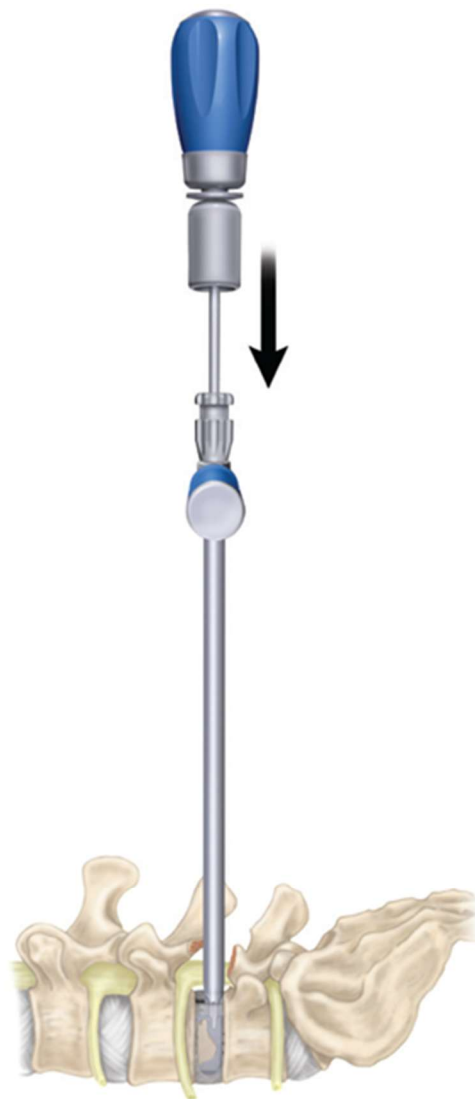


Figure 6

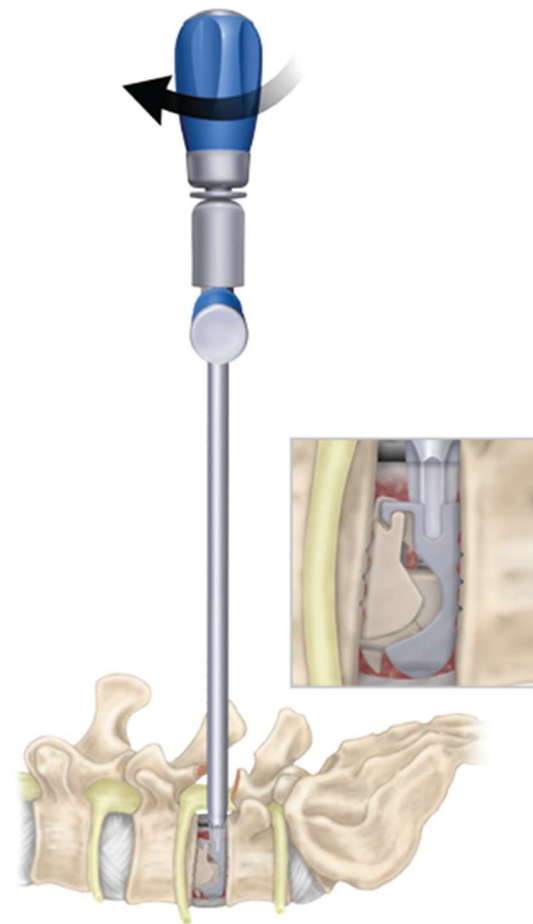


Figure 7

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		<p><i>See also</i> Row 1L.</p> <p><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</p>
Row	Claim 2	
2	<p>The device of claim 1, wherein the first movable portion defines a first bone material receiving area between the first and second end portions and the first and second side portions, wherein the second movable portion defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions, and wherein the first bone material receiving area is aligned with the second bone material receiving area and sized such that a path between the first and second bone</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 1, as described above.</p> <p>The first movable portion defines a first bone material receiving area between the first and second end portions and the first and second side portions, wherein the second movable portion defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions, and wherein the first bone material receiving area is aligned with the second bone material receiving area and sized such that a path between the first and second bone material receiving areas is only partially blocked by the wedge.</p> <p>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.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

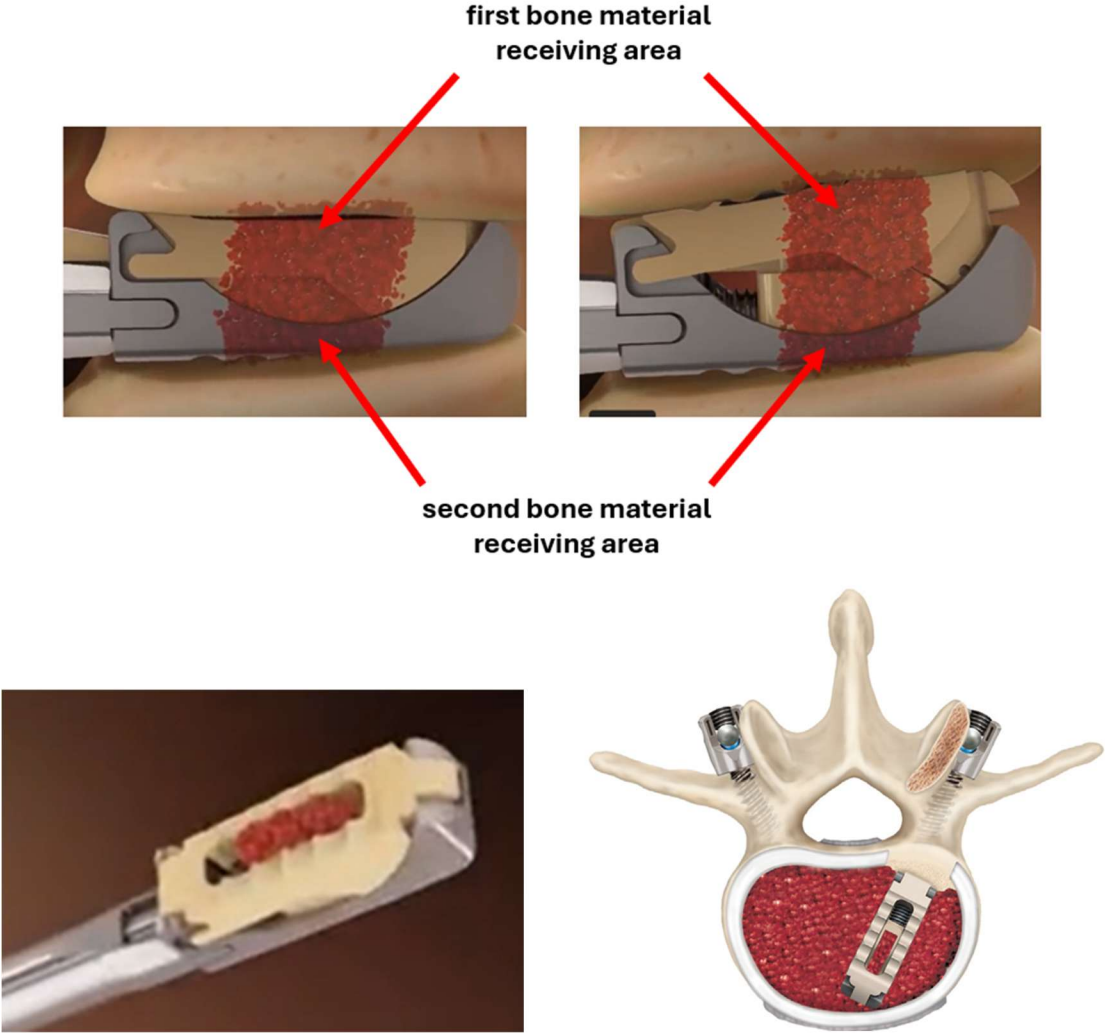
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>material receiving areas is only partially blocked by the wedge.</p>	<p>first bone material receiving area</p> <p>second bone material receiving area</p>  <p>The images illustrate the patent's claims. The top two images show a cross-section of a vertebral body with a wedge-shaped implant. Red arrows point to the 'first bone material receiving area' (top) and the 'second bone material receiving area' (bottom). The bottom-left image shows a close-up of the implant's internal structure, and the bottom-right image shows a cross-section of a vertebral body with the implant and bone material.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		<p><i>See also</i> Claim 1, Rows 1A and 1C.</p> <p><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</p>
Row	Claim 4	
4	The device of claim 1, and further comprising means for mating the second movable portion with prongs of a tool.	<p>The '633A Accused Instrumentalities include the limitations of claim 1, as described above.</p> <p>The '633A Accused Instrumentalities include means for mating the second movable portion with prongs of a tool.</p> <p>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.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

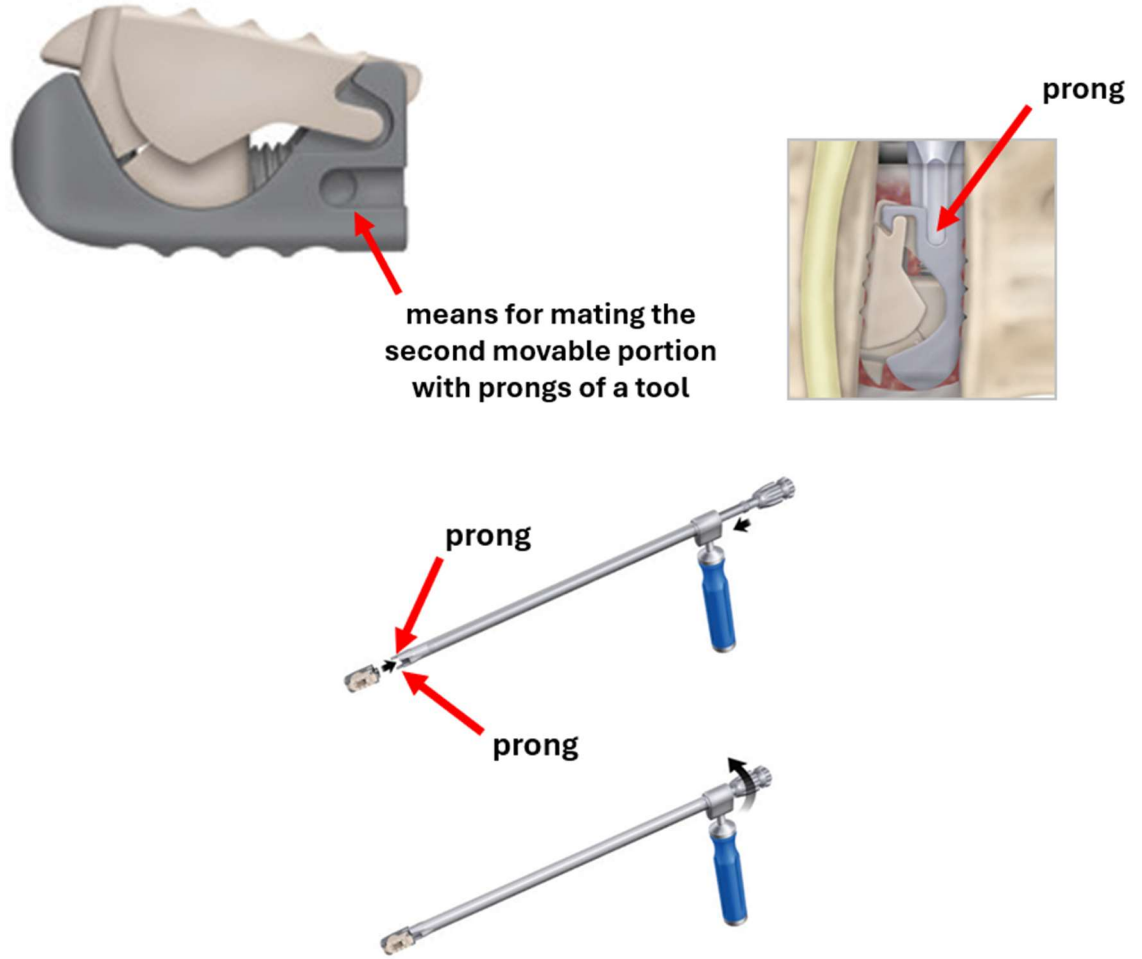
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p data-bbox="1276 1344 1444 1404">Figure 4 Attaching Implant</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		<p><i>See also</i> Claim 1, Row 1C.</p> <p><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</p>
Row	Claim 7	
7	<p>The device of claim 1, wherein the third and fourth side portions define first and second indentations that extend into but not through the third and fourth side portions and that are configured to be grabbed by an insertion tool.</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 1, as described above.</p> <p>The third and fourth side portions define first and second indentations that extend into but not through the third and fourth side portions and that are configured to be grabbed by an insertion tool.</p> <div data-bbox="1050 940 1650 1305" data-label="Image"> <p>The diagram illustrates a perspective view of a cage component. Four red arrows point to specific features: 'third side portion' (top left), 'fourth side portion' (top right), 'first indentation' (bottom left), and 'second indentation' (bottom right). A 'Lateral' view inset at the top shows the side profile of the cage.</p> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

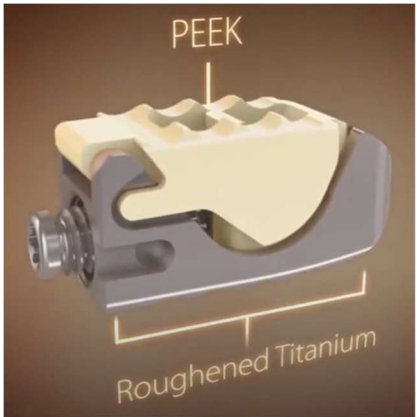
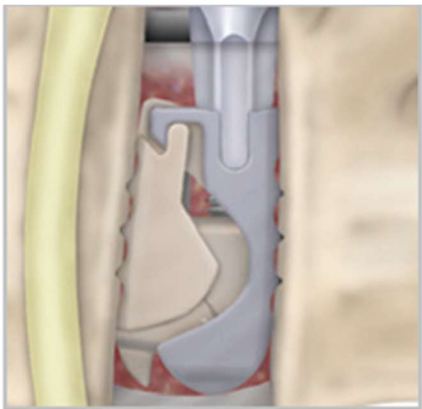
U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}	
			

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="1024 337 1675 1198"><p style="text-align: center;">Figure 4 Attaching Implant</p></div> <p data-bbox="688 1214 966 1252"><u>Exemplary Sources</u></p> <p data-bbox="688 1252 1997 1409">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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
Row	Claim 8	
8	<p>A system comprising the device of claim 7, wherein the system further comprises:</p> <p>means for gripping and inserting the device.</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 7, as described above.</p> <p>The '633A Accused Instrumentalities include a system that includes the device of claim 7. The system includes means for gripping and inserting the device.</p> <p>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.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

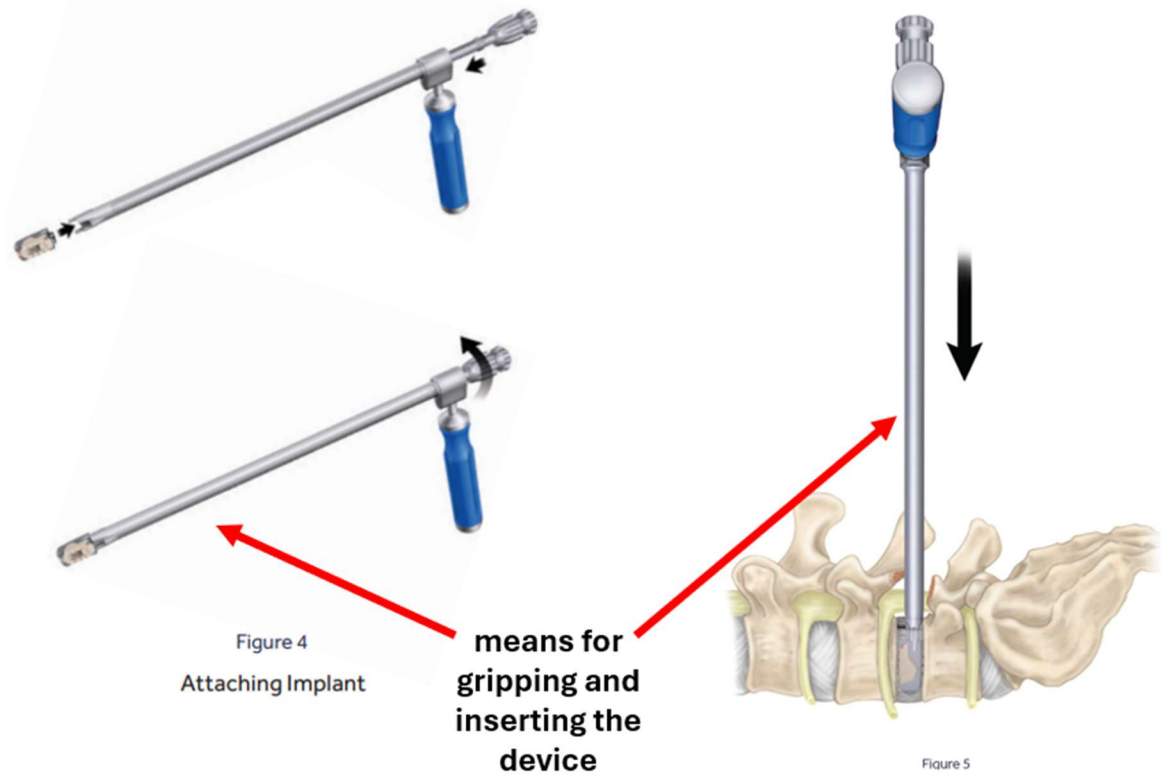
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="787 324 1942 1096"><p data-bbox="961 950 1150 1015">Figure 4 Attaching Implant</p><p data-bbox="1696 1075 1753 1091">Figure 5</p><p data-bbox="1234 950 1423 1091">means for gripping and inserting the device</p></div> <p data-bbox="688 1107 1060 1140"><i>See also Claim 4, Claim 7.</i></p> <p data-bbox="688 1188 961 1221"><u>Exemplary Sources</u></p> <p data-bbox="688 1226 1995 1380">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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
Row	Claim 9	
9	<p>The system of claim 8, and further comprising:</p> <p>means for turning the rotation screw with respect to the second movable portion and the wedge.</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 8, as described above.</p> <p>The '633A Accused Instrumentalities include means for turning the rotation screw with respect to the second movable portion and the wedge.</p> <p>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).”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

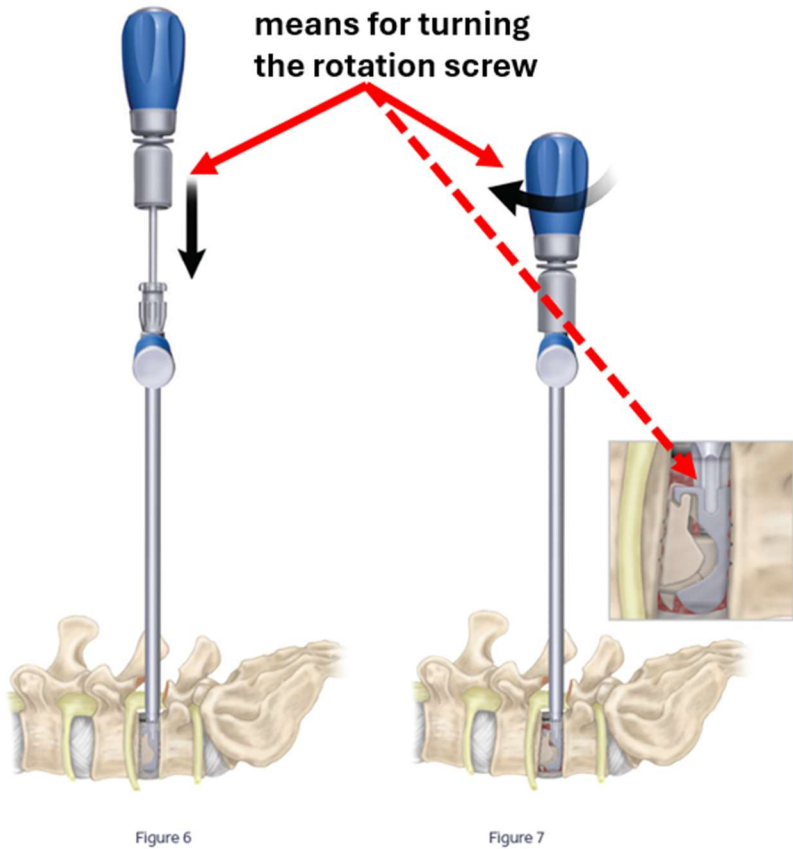
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p>The diagrams illustrate a minimally invasive surgical approach for a minimally invasive transpedicular screw (MITS) system. Figure 6 shows a minimally invasive transpedicular screw (MITS) being inserted into a vertebral body. Figure 7 shows a minimally invasive transpedicular screw (MITS) being inserted into a vertebral body. A red arrow points from the text "means for turning the rotation screw" to the handle of the minimally invasive transpedicular screw (MITS) in Figure 7. An inset in Figure 7 shows a cross-sectional view of the minimally invasive transpedicular screw (MITS) inserted into a vertebral body.</p> <p>means for turning the rotation screw</p> <p>Figure 6</p> <p>Figure 7</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p align="center">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.</p> <p>rt. of the</p> <div data-bbox="961 337 1730 1091"> <p>STANDARD PEEK nose is fully recessed within the Titanium Alloy bottom.</p> <p>EXTRA-LORDOTIC</p> <p>CORRECT</p> <p>INCORRECT</p> <p>Screws are fully retracted</p> </div> <p><i>See also</i> Claim 1, Rows 1C and 1M.</p> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
Row	Claim 10	
10	<p>The device of claim 1, and further comprising:</p> <p>means for pivotably attaching the first movable portion to the second movable portion.</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 1, as described above.</p> <p>The '633A Accused Instrumentalities include means for pivotably attaching the first movable portion to the second movable portion.</p> <div style="text-align: center;">  <p>Expanded Collapsed</p> </div> <p style="text-align: right;">means for pivotably attaching the first movable portion to the second movable portion</p> <p><i>See also</i> Claim 1, Rows 1A and 1C.</p> <p><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</p>
Row	Claim 11	
11	<p>The device of claim 1, wherein the first movable portion has a thickness that varies between</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 1, as described above.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
	<p>the first end and the second end such that the first interior surface comprises a curved portion and a straight portion.</p>	<p>The first movable portion has a thickness that varies between the first end and the second end such that the first interior surface comprises a curved portion and a straight portion.</p> <div data-bbox="1020 441 1656 928" data-label="Image"> </div> <p><i>See also</i> Claim 1, Row 1B.</p> <p><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</p>
Row	Claim 12	
12	The device of claim 1, wherein the wedge comprises opposing	The '633A Accused Instrumentalities include the limitations of claim 1, as described above.

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

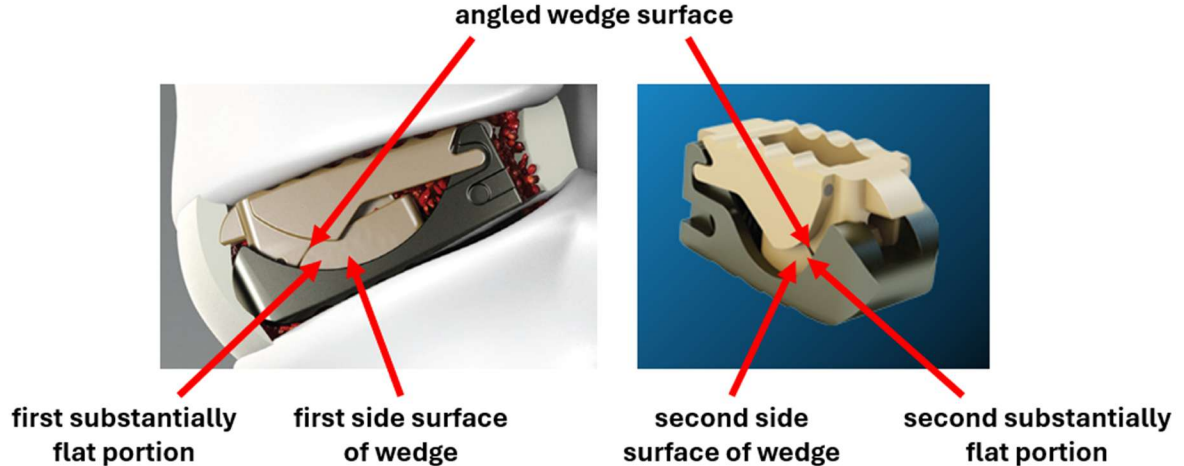
U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
	<p>first and second side surfaces with first and second substantially flat portions, wherein the angled wedge surface extends between the first and second side surfaces and is substantially flat across the angled wedge surface from the first side surface to the second side surface.</p>	<p>The wedge comprises opposing first and second side surfaces with first and second substantially flat portions, wherein the angled wedge surface extends between the first and second side surfaces and is substantially flat across the angled wedge surface from the first side surface to the second side surface.</p> <div style="text-align: center;">  <p style="text-align: center;">angled wedge surface</p> <p style="text-align: center;">first substantially flat portion first side surface of wedge second side surface of wedge second substantially flat portion</p> </div> <p><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</p>
Row	Claim 14	
14A	An expandable interbody device comprising:	To the extent the preamble is limiting, the '633A Accused Instrumentalities include an expandable interbody device. The '633A Accused Instrumentalities include a top housing extending from a first end to a second end, wherein the top housing has first and second end

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

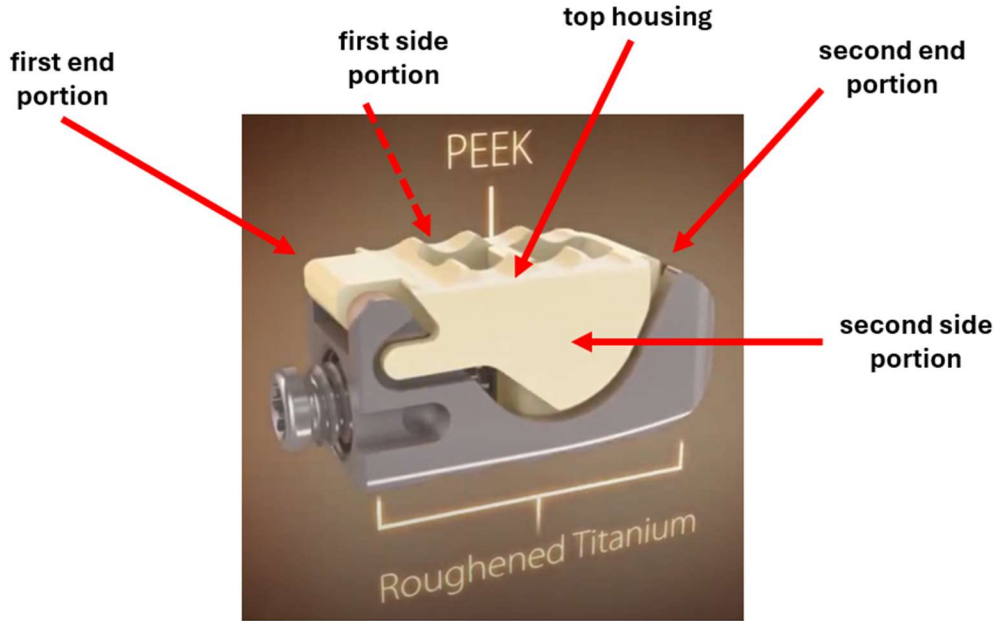
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>a top housing extending from a first end to a second end, wherein the top housing has first and second end portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions,</p>	<p>portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions.</p> <p>For example, Medtronic promotional material identifies the Elevate™ Spinal System as an “Expandable Interbody Device.”</p> 

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="1039 332 1669 657" data-label="Image"> </div> <p data-bbox="688 711 961 743"><u>Exemplary Sources</u></p> <p data-bbox="688 748 1997 906"> 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 </p>
<p>14B</p> <p>wherein the top housing has a first vertebral body engagement surface that is at least partially convex and has a first interior surface positioned on an opposite side of the top housing than the first vertebral body engagement surface,</p>	<p>The top housing has a first vertebral body engagement surface that is at least partially convex and has a first interior surface positioned on an opposite side of the top housing than the first vertebral body engagement surface.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

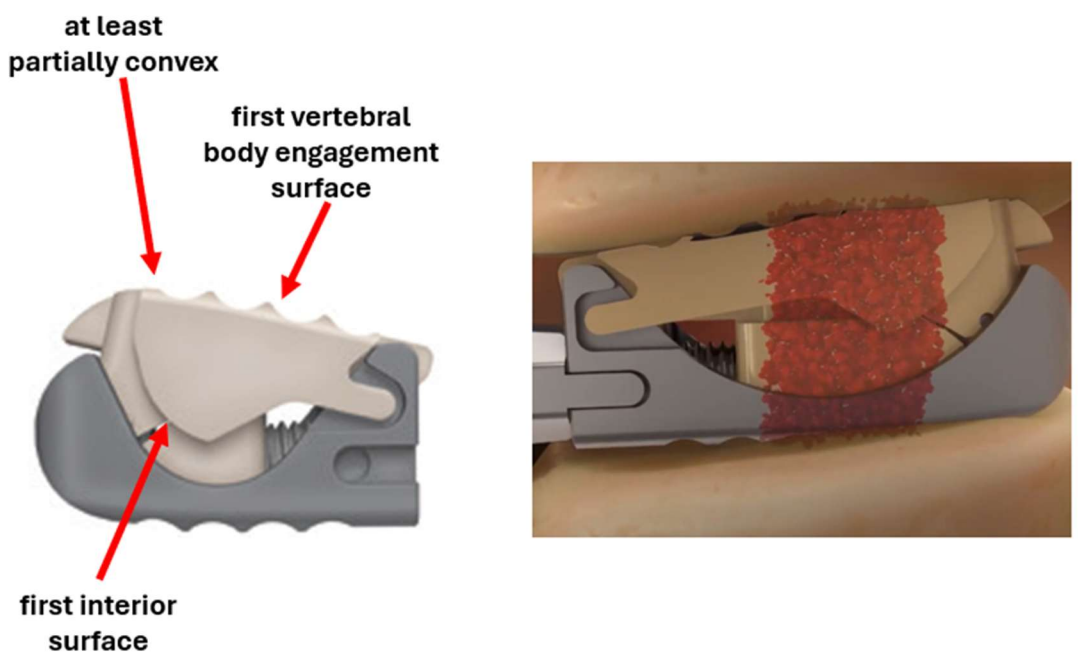
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p>at least partially convex</p> <p>first vertebral body engagement surface</p> <p>first interior surface</p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
14C	<p>wherein the top housing defines at least one first bone material receiving area extending through the top housing</p> <p>The top housing defines at least one first bone material receiving area extending through the top housing between the first and second end portions and the first and second side portions.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

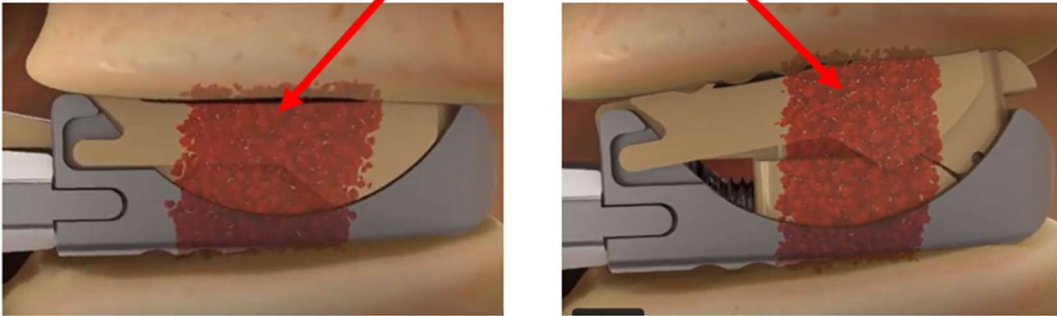
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>between the first and second end portions and the first and second side portions;</p>	<p>For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Continuous apposition of bone-graft-to-endplate 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.”</p> <p align="center">first bone material receiving area</p> 

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="800 431 1320 774" data-label="Image"> </div> <div data-bbox="1381 329 1896 774" data-label="Image"> </div> <p data-bbox="688 816 957 849"><i>See also Row 14A.</i></p> <p data-bbox="688 898 963 930"><u>Exemplary Sources</u></p> <p data-bbox="688 938 1997 1092"> 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 </p>
<p data-bbox="111 1117 661 1385">14D a bottom housing extending from a third end to a fourth end, wherein the bottom housing has third and fourth end portions positioned at the third and fourth ends, respectively, and has third and fourth side</p>	<p data-bbox="688 1117 2013 1271">The '633A Accused Instrumentalities include a bottom housing extending from a third end to a fourth end, wherein the bottom 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.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

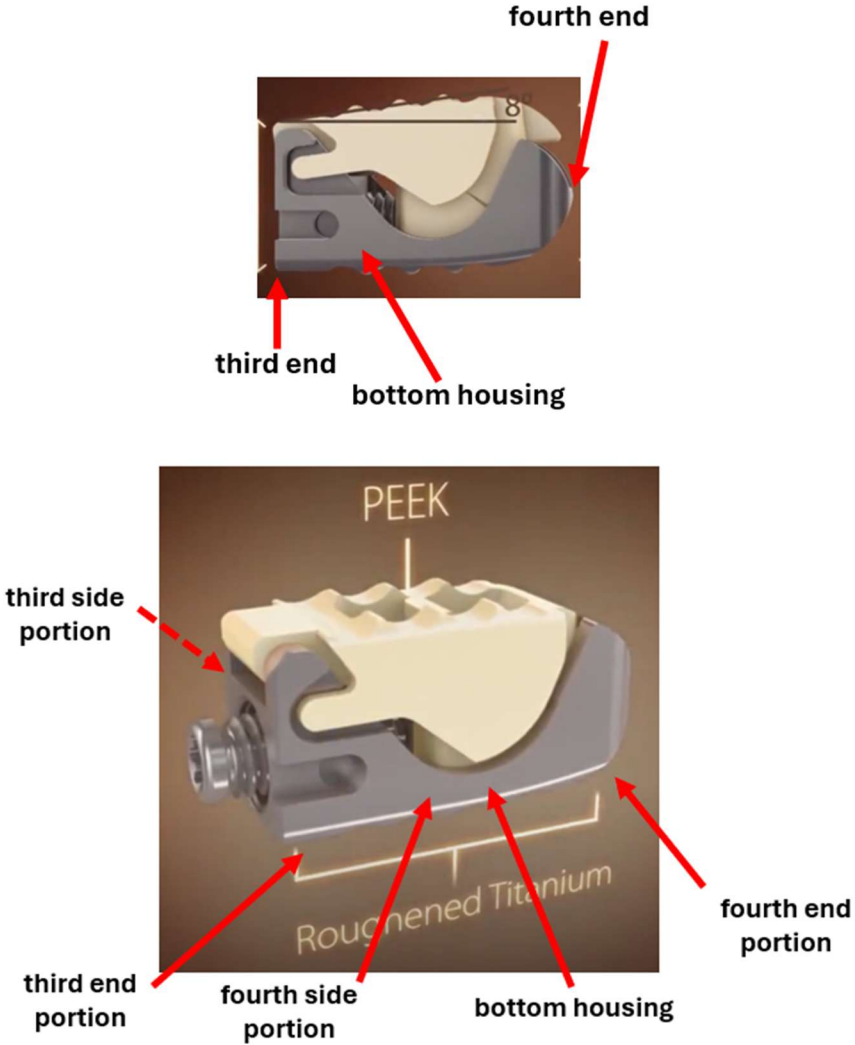
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>portions extending between the third and fourth end portions,</p>	 <p>The image displays two 3D perspective views of a medical device component, likely a catheter or probe. The top view shows a cross-section of the device with a central lumen. The bottom view shows a side profile of the device. The device is composed of two main parts: a top housing and a bottom housing. The top housing is made of PEEK (polyether ether ketone) and features a series of ridges or teeth along its top edge. The bottom housing is made of Roughened Titanium and features a series of grooves or channels along its bottom edge. The device is labeled with various parts: 'fourth end' (top right), 'third end' (bottom left), 'bottom housing' (bottom center), 'third side portion' (left), 'fourth side portion' (right), 'third end portion' (bottom left), and 'fourth end portion' (bottom right). The material 'PEEK' is labeled on the top surface, and 'Roughened Titanium' is labeled on the bottom surface.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

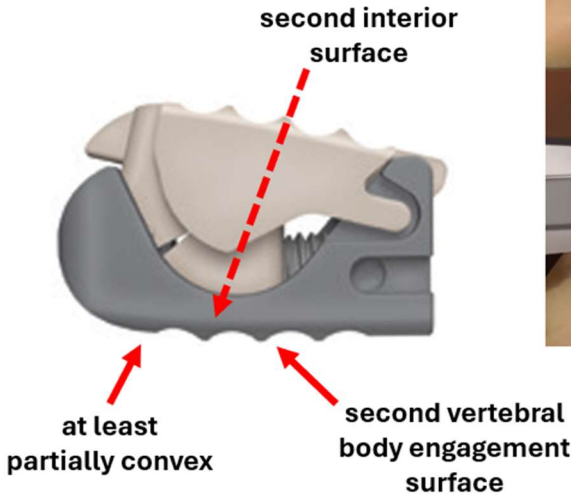
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p>
<p>14E wherein the bottom housing has a second vertebral body engagement surface that is at least partially convex and has a second interior surface positioned on an opposite side of the bottom housing than the second vertebral body engagement surface,</p>	<p>The bottom housing has a second vertebral body engagement surface that is at least partially convex and has a second interior surface positioned on an opposite side of the bottom housing than the second vertebral body engagement surface.</p> <div style="text-align: center;">  </div> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

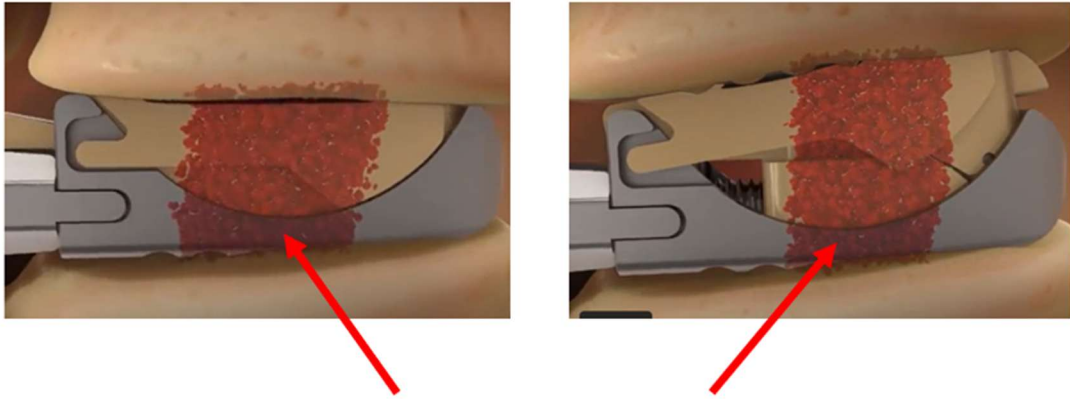
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>14F wherein the bottom housing defines at least one second bone material receiving area extending through the bottom housing between the third and fourth end portions and the third and fourth side portions,</p>	<p>The bottom housing defines at least one second bone material receiving area extending through the bottom housing between the third and fourth end portions and the third and fourth side portions.</p> <p>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.”</p> <div style="text-align: center;">  <p>second bone material receiving area</p> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="800 431 1320 774" data-label="Image"> </div> <div data-bbox="1381 329 1898 774" data-label="Image"> </div> <p data-bbox="688 816 957 849"><i>See also Row 14D.</i></p> <p data-bbox="688 898 963 930"><u>Exemplary Sources</u></p> <p data-bbox="688 938 1997 1092"> 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 </p>
<p data-bbox="111 1117 661 1385">14G wherein the top housing is aligned with the bottom housing such that the first end of the top housing is axially aligned with the third end of the bottom housing and the second end of the top housing is axially</p>	<p data-bbox="688 1117 2007 1230">The top housing is aligned with the bottom housing such that the first end of the top housing is axially aligned with the third end of the bottom housing and the second end of the top housing is axially aligned with the fourth end of the bottom housing.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

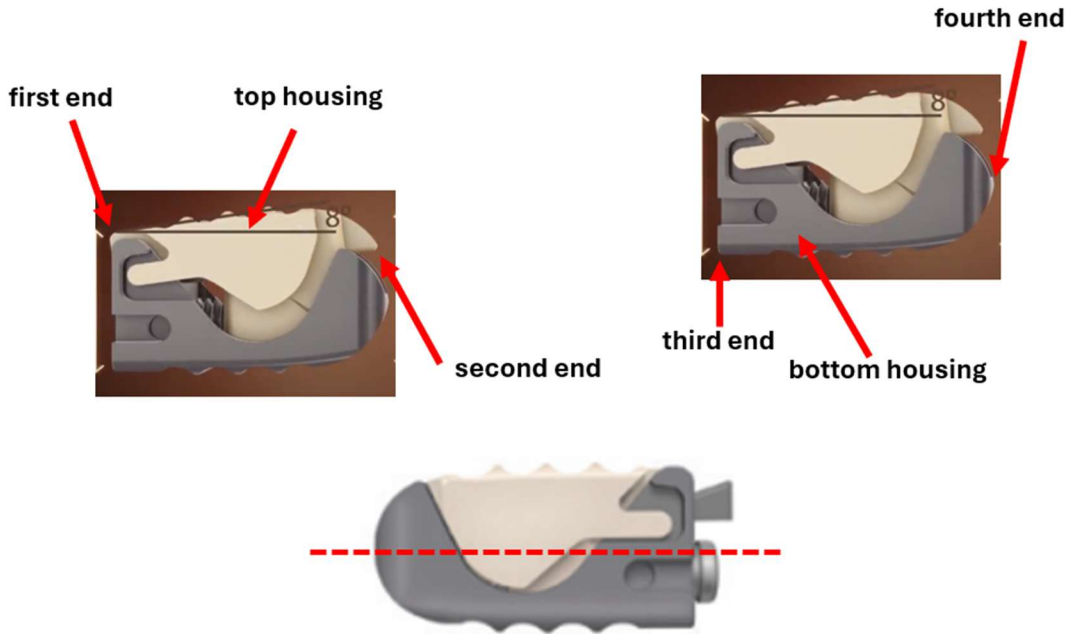
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>aligned with the fourth end of the bottom housing,</p>	 <p>Exemplary Sources http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>14H wherein the first end portion of the top housing and the third end portion of the bottom housing are hingedly interconnected such that the top</p>	<p>The first end portion of the top housing and the third end portion of the bottom housing are hingedly interconnected such that the top housing can pivot with respect to the bottom housing so as to move the second end portion of the top housing away from the fourth end portion of the bottom housing.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633 **Infringement Claim Chart**

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>housing can pivot with respect to the bottom housing so as to move the second end portion of the top housing away from the fourth end portion of the bottom housing,</p>	<p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p> <div data-bbox="816 435 1885 898"> <p>• Approximately 1mm of posterior expansion. • Up to 5mm of anterior expansion. • Up to 8 degrees of lordosis.</p> <p>• Fixed posterior height. • Up to 5mm of anterior expansion. • Up to 15 degrees of lordosis.</p> <p>Standard Extra-lordotic</p> </div> <div data-bbox="743 940 1974 1352"> <p>second end portion first end portion</p> <p>Expanded Collapsed</p> <p>fourth end portion third end portion</p> <p>15°</p> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><i>See also</i> Rows 14A and 14D.</p> <p><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</p>
<p>14I</p> <p>wherein a first length of the top housing from the first end to the second end is substantially equal to a second length of the bottom housing from the third end to the fourth end,</p>	<p>A first length of the top housing from the first end to the second end is substantially equal to a second length of the bottom housing from the third end to the fourth end.</p> <div data-bbox="1008 761 1715 1282"> <p>The diagram shows a cross-section of a medical device, likely a cage or housing. It features a top housing and a bottom housing. Key dimensions are indicated with blue arrows and red dashed lines: 2.21mm (width of top housing), 4.20mm (width of bottom housing), 1.25mm (width of a central feature), and 3.75mm (width of another feature). A red arrow labeled 'top housing' points to the upper part, and another red arrow labeled 'bottom housing' points to the lower part. A red arrow labeled 'first length' points to the top housing, and another red arrow labeled 'second length' points to the bottom housing. A blue arrow labeled '23mm length' indicates the total length of the device.</p> </div> <p><i>See also</i> Rows 14A and 14D.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

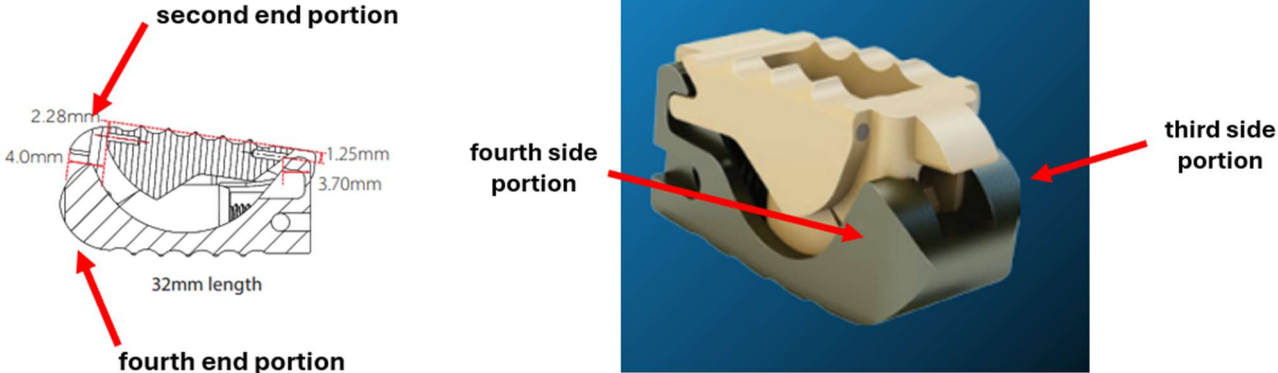
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>14J and wherein the second end portion of the top housing is smaller than the fourth end portion of the bottom housing such that the second end portion of the top housing is positionable between the third and fourth side portions of the bottom housing at the fourth end of the bottom housing;</p>	<p>The second end portion of the top housing is smaller than the fourth end portion of the bottom housing such that the second end portion of the top housing is positionable between the third and fourth side portions of the bottom housing at the fourth end of the bottom housing.</p> <p>For example, Medtronic promotional material states that the “PEEK nose is fully recessed within the Titanium Alloy bottom” in the collapsed position.</p> <div style="text-align: center;">  </div>

EXHIBIT F1 - U.S. PATENT 10,426,633 **Infringement Claim Chart**

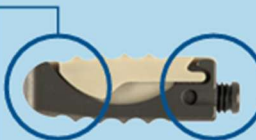
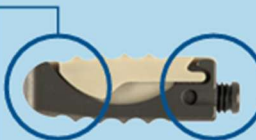
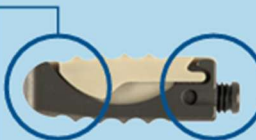
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1, 2}									
	<div><div><div><p>Expanded</p></div><div><p>Collapsed</p></div></div><div><p>Note Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom.</p></div><div><p>ment. tip of the</p></div><div><table><thead><tr><th></th><th>STANDARD</th><th>EXTRA-LORDOTIC</th></tr></thead><tbody><tr><td>CORRECT</td><td><p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p></td><td></td></tr><tr><td>INCORRECT</td><td></td><td></td></tr></tbody></table></div></div>		STANDARD	EXTRA-LORDOTIC	CORRECT	<p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> 		INCORRECT		
	STANDARD	EXTRA-LORDOTIC								
CORRECT	<p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> 									
INCORRECT										

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><i>See also</i> Rows 14A and 14D.</p> <p><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</p>
<p>14K 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,</p>	<p>The '633A 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.</p> <div data-bbox="1108 821 1583 1172" data-label="Image"> </div> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

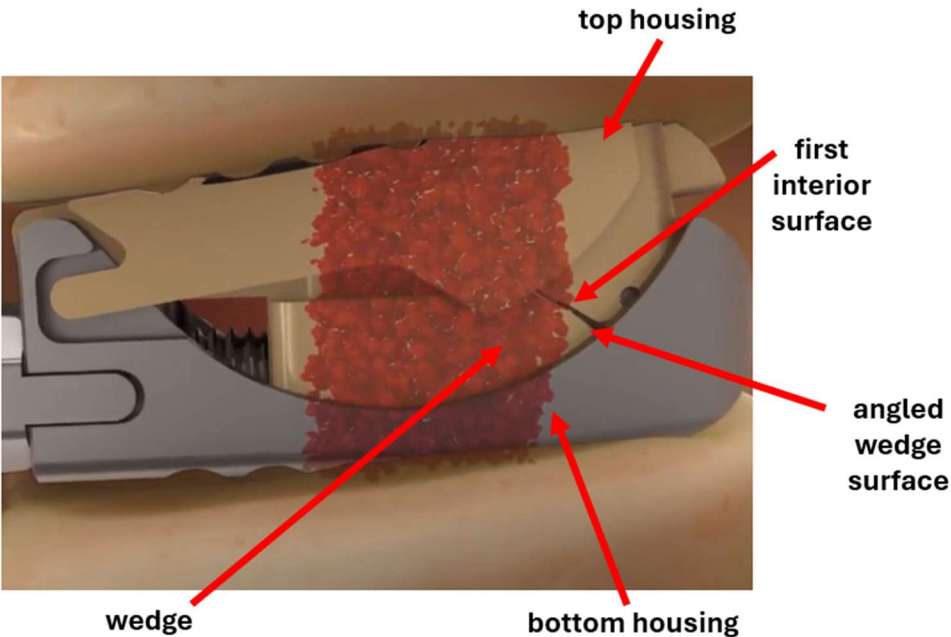
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>14L wherein the wedge is positioned between the top housing and the bottom housing with the angled wedge surface facing the first interior surface of the top housing,</p>	<p>The wedge is positioned between the top housing and the bottom housing with the angled wedge surface facing the first interior surface of the top housing.</p> <div data-bbox="892 446 1837 1079"></div> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

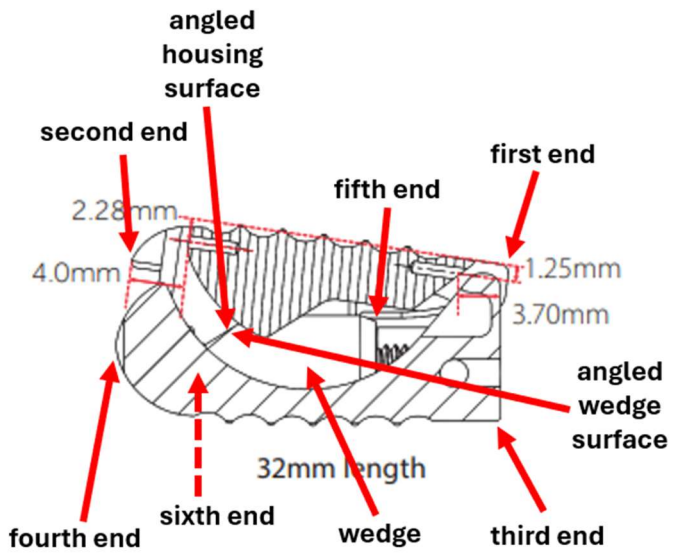
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>14M wherein the first interior surface of the top housing has an angled housing surface shaped to engage the angled wedge surface of the wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the top housing and is less than a distance from the third end to the fourth end of the bottom housing,</p>	<p>The first interior surface of the top 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 top housing and is less than a distance from the third end to the fourth end of the bottom housing.</p>  <p><i>See also Rows 14A, 14D, 14K.</i></p> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

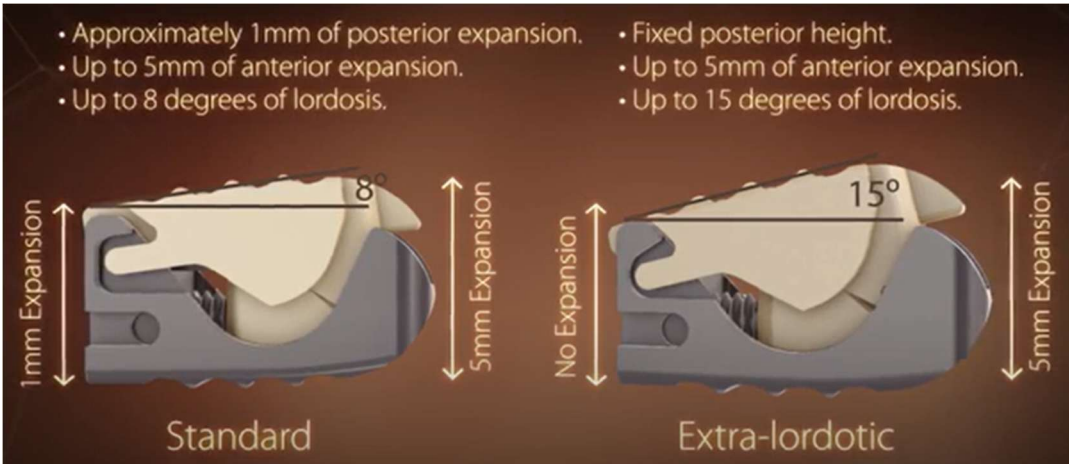
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>14N wherein the wedge is configured to slide within a space defined by the top and bottom housings in a direction toward the second and fourth ends of the top and bottom housings from a first wedge position that allows the top and bottom 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 top housing to hingedly open the top housing with respect to the bottom housing whereby the wedge remains axially confined within the space defined by the top and bottom housings in the first and second wedge positions; and</p>	<p>The wedge is configured to slide within a space defined by the top and bottom housings in a direction toward the second and fourth ends of the top and bottom housings from a first wedge position that allows the top and bottom 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 top housing to hingedly open the top housing with respect to the bottom housing whereby the wedge remains axially confined within the space defined by the top and bottom housings in the first and second wedge positions.</p> <p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p>  <p>The diagram illustrates two cross-sectional views of spinal disc implants. The 'Standard' implant on the left is shown with a wedge-shaped nucleus. It features a 1mm expansion at the posterior (top) and 5mm expansion at the anterior (bottom). The lordosis angle is indicated as 8°. The 'Extra-lordotic' implant on the right is shown with a similar wedge-shaped nucleus but with a fixed posterior height and no expansion at the posterior. It features 5mm expansion at the anterior. The lordosis angle is indicated as 15°.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

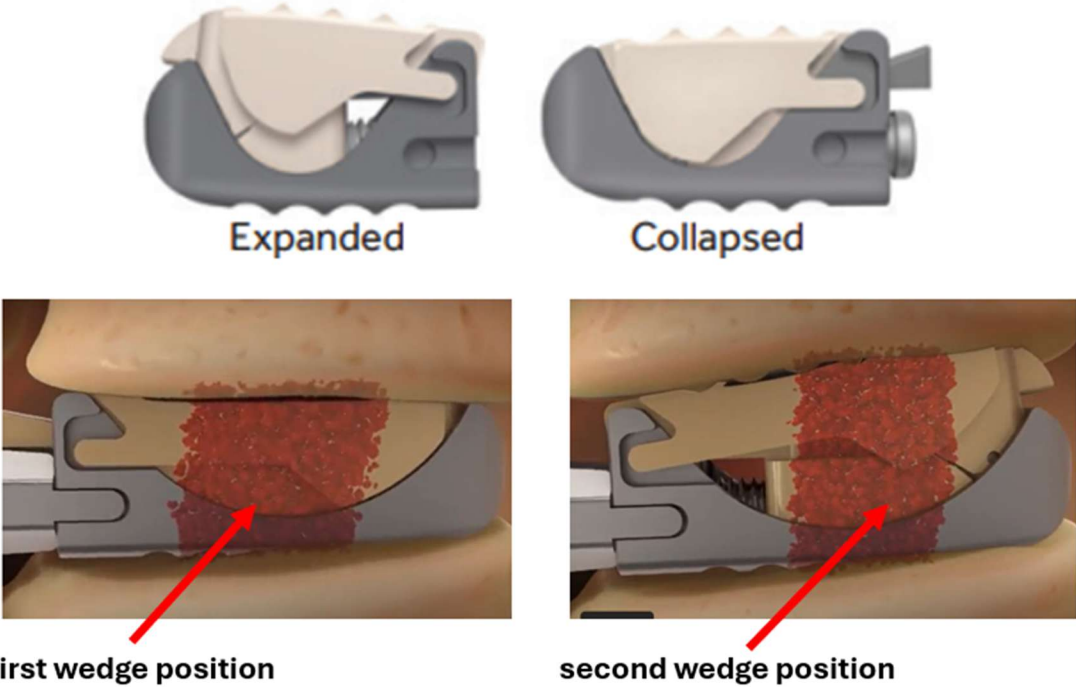
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="825 342 1894 1024">  <p>The diagrams illustrate the Medtronic ELEVATE expandable cage system. The top row shows the cage in its 'Expanded' and 'Collapsed' states. The bottom row shows two cross-sectional views of the cage implanted in a vertebral body. The 'first wedge position' shows the cage in its expanded state, with a red bone graft filling the space. The 'second wedge position' shows the cage in its collapsed state, with the red bone graft filling the space. Red arrows point to the bone graft in both positions.</p> </div> <p>See also Rows 14A, 14D, 14H, 14L-14M.</p> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

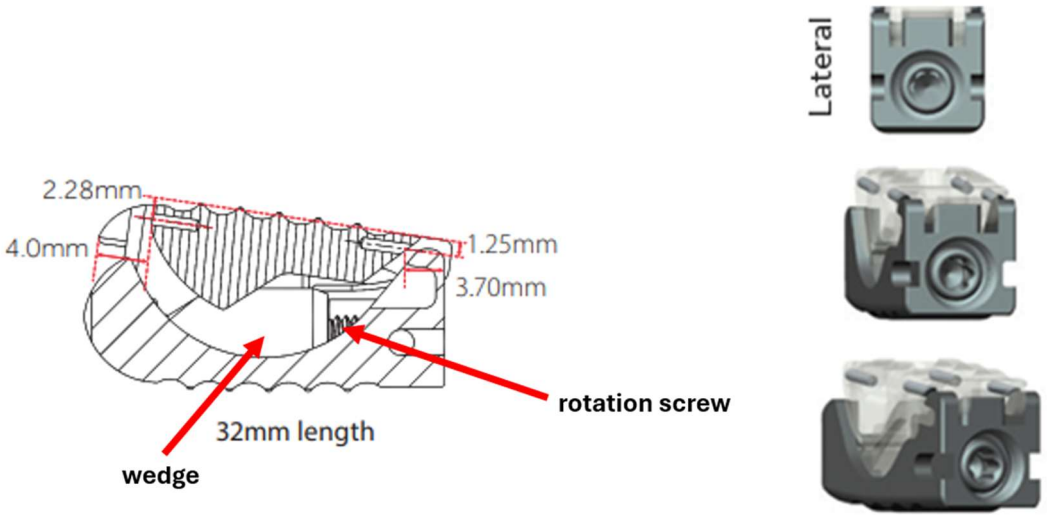
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>14O a rotation screw operably connected to the wedge and to the bottom housing, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the top housing and the bottom housing within the space defined by the first and bottom housings from the first wedge position to the second wedge position.</p>	<p>The '633A Accused Instrumentalities include a rotation screw operably connected to the wedge and to the bottom housing, wherein rotation of the rotation screw moves the wedge in an axially translating direction with respect to the top housing and the bottom housing within the space defined by the first and bottom housings from the first wedge position to the second wedge position.</p> <p>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).”</p> 

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div><div>ment. tip of the</div><div><div><div>Note</div><div>Ensure the screw on the back of the implant is fully retracted and the PEEK nose is fully recessed within the Titanium Alloy bottom.</div></div><div><div><div>STANDARD</div><div>PEEK nose is fully recessed within the Titanium Alloy bottom.</div><div>CORRECT</div><div>INCORRECT</div></div><div><div>EXTRA-LORDOTIC</div><div>Screws are fully retracted</div><div>INCORRECT</div></div></div><div><div>Expanded</div><div>Collapsed</div></div></div></div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

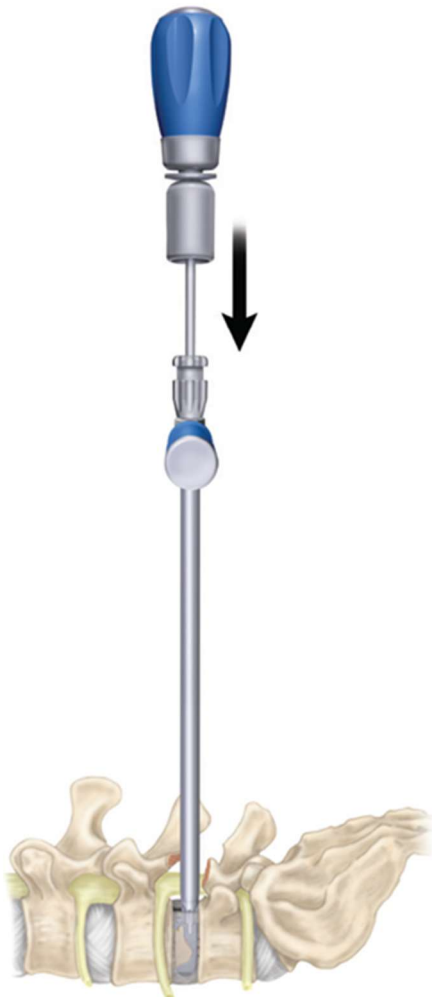
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<div data-bbox="869 326 1297 1317"></div> <div data-bbox="1024 1360 1108 1390">Figure 6</div> <div data-bbox="1373 483 1864 1317"></div> <div data-bbox="1470 1360 1554 1390">Figure 7</div>	

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		<p><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</p>
Row	Claim 16	
16	<p>The device of claim 14, wherein the top housing has a thickness that varies between the first end and the second end such that the first interior surface comprises a curved portion and a straight portion.</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 14, as described above.</p> <p>The top housing has a thickness that varies between the first end and the second end such that the first interior surface comprises a curved portion and a straight portion.</p> <div style="text-align: center;"> <p>straight portion curved portion</p>  </div> <p><i>See also</i> Claim 14, Row 14B.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

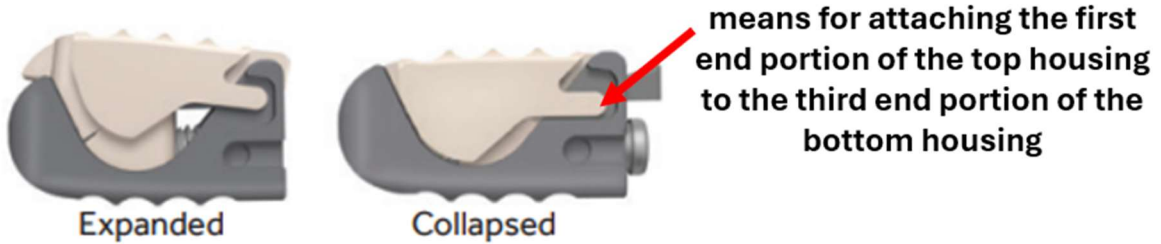
U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		<p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
Row	Claim 17	
17	<p>The device of claim 14, and further comprising means for attaching the first end portion of the top housing to the third end portion of the bottom housing.</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 14, as described above.</p> <p>The '633A Accused Instrumentalities include means for attaching the first end portion of the top housing to the third end portion of the bottom housing.</p> <div style="text-align: center;">  <p style="text-align: center;">Expanded Collapsed</p> </div> <p><i>See also</i> Rows 14A and 14D.</p> <p><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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

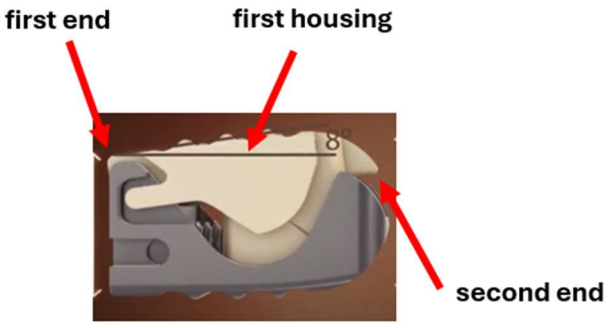
U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
Row	Claim 19	
19A	<p>An expandable interbody device comprising:</p> <p>a first housing extending from a first end to a second end, wherein the first housing has first and second end portions positioned at the first and second ends, respectively, and has first and second side portions extending between the first and second end portions,</p>	<p>To the extent the preamble is limiting, the '633A Accused Instrumentalities include an expandable interbody device. The '633A 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.</p> <p>For example, Medtronic promotional material identifies the Elevate™ Spinal System as an “Expandable Interbody Device.”</p> <div style="text-align: center;">  </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

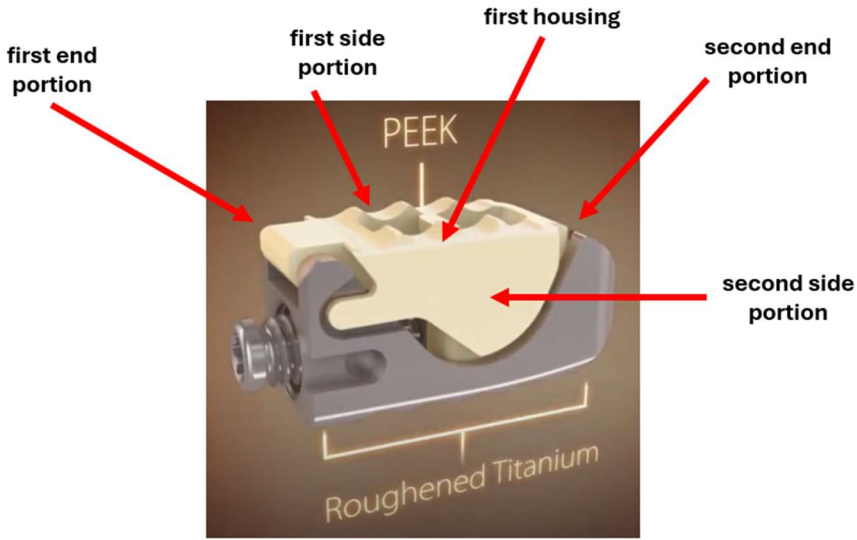
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>19B</p> <p>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 housing than the first vertebral body engagement surface,</p>	<p>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.</p> <p>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.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

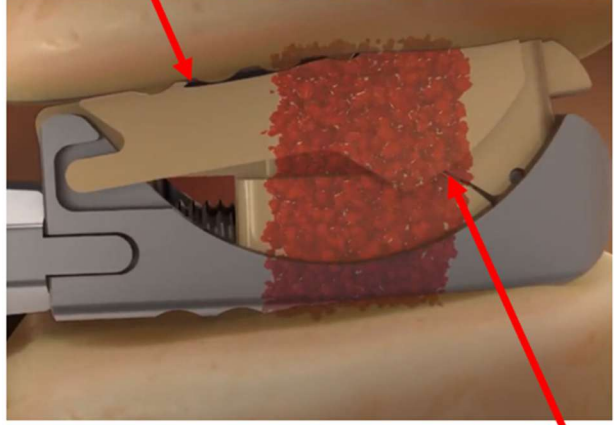
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p style="text-align: center;">first vertebral body engagement surface</p>  <p style="text-align: right;">first interior surface</p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
19C	<p>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;</p> <p>The first housing defines a first bone material receiving area between the first and second end portions and the first and second side portions.</p> <p>For example, Medtronic promotional material describes the Elevate™ Spinal System as having “essential features” including “Continuous apposition of bone-graft-to-endplate during</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

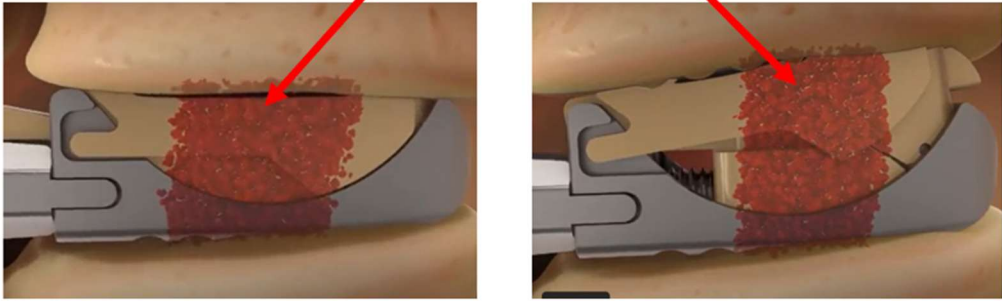
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p data-bbox="688 321 1976 558">expansion” and an “Open volume design for appropriate bone graft material.” This material further states “This expandable interbody device is intended to be used with autograft and/or allogenic bone graft comprised 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.”</p> <p data-bbox="1262 589 1514 656" style="text-align: center;">first bone material receiving area</p> <div data-bbox="850 717 1845 1015"></div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="793 431 1312 774" data-label="Image"> </div> <div data-bbox="1373 329 1906 774" data-label="Image"> </div> <p data-bbox="688 816 957 849"><i>See also Row 19A.</i></p> <p data-bbox="688 898 963 930"><u>Exemplary Sources</u></p> <p data-bbox="688 938 1997 1089"> 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 </p>
19D	<p data-bbox="212 1117 661 1385">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</p> <p data-bbox="688 1117 2011 1268">The '633A 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.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>portions extending between the third and fourth end portions,</p>	<div data-bbox="709 354 1995 873"> </div> <p>Exemplary Sources</p> <p>http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p> <p>https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>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</p>	<p>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.</p> <p>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.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

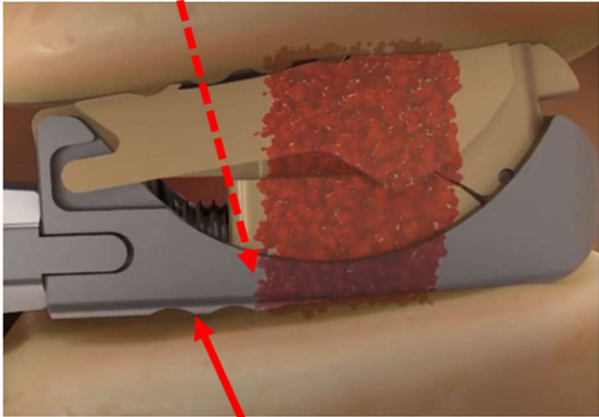
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>second vertebral body engagement surface,</p>	<p style="text-align: center;">second interior surface</p>  <p style="text-align: center;">second vertebral body engagement surface</p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>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,</p>	<p>The second housing defines a second bone material receiving area between the third and fourth end portions and the third and fourth side portions.</p> <p>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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

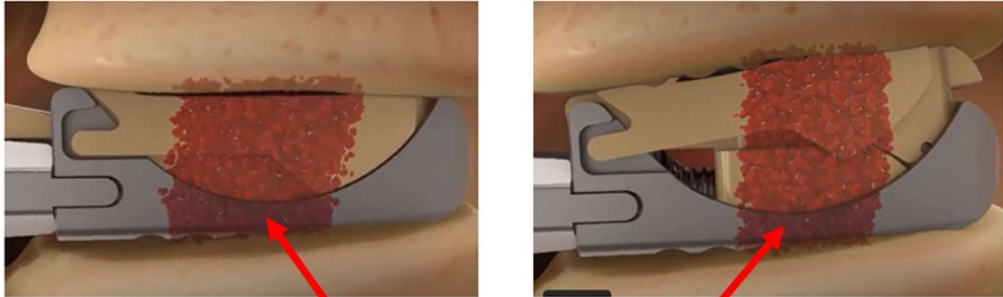
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p>further states “This expandable interbody device is intended to be used with autograft and/or allogenic bone graft comprised of cancellous and/or corticocancellous bone. In addition to filling the implant, the disc space may be filled with 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.”</p> <div data-bbox="852 568 1848 862">  <p style="text-align: center;">second bone material receiving area</p> </div> <p><i>See also</i> Row 19D.</p> <p><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</p>
19G	<p>wherein the third and fourth side portions define first and second indentations configured to be grabbed by an insertion tool.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

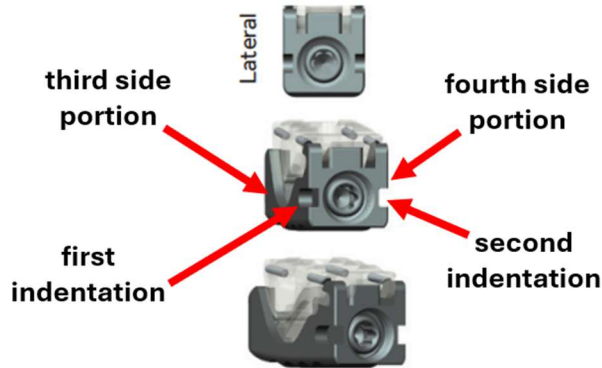
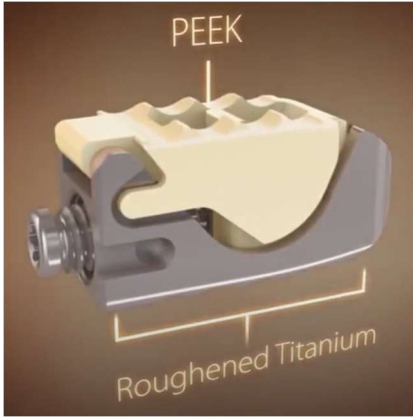
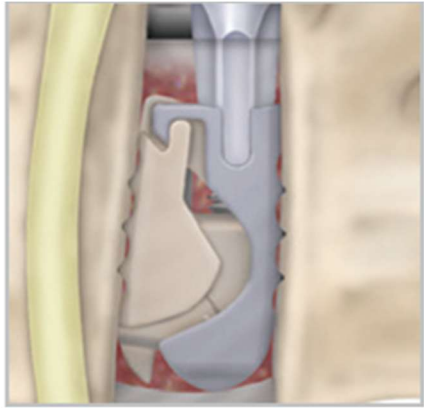
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>second indentations configured to be grabbed by an insertion tool,</p>	  

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="1024 337 1675 1036"></div> <p data-bbox="1234 1109 1470 1190" style="text-align: center;">Figure 4 Attaching Implant</p> <p data-bbox="688 1214 966 1247"><u>Exemplary Sources</u></p> <p data-bbox="688 1255 1995 1409">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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

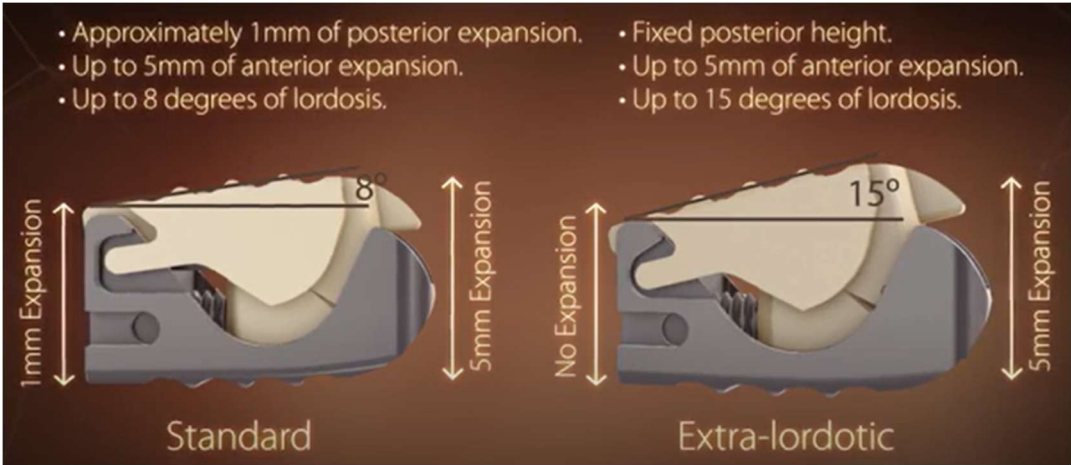
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>19H wherein the first end portion of the first housing is hingedly connected to the third end portion of the second housing such that the first housing can pivot with respect to the second housing so as to move the second end portion of the first housing away from the fourth end portion of the second housing,</p>	<p>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.</p> <p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p>  <p>The diagram illustrates two cross-sectional views of spinal disc prostheses. The 'Standard' prosthesis 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' prosthesis 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 diagrams, two columns of bullet points list the specifications for each.</p> <ul style="list-style-type: none"> • Approximately 1mm of posterior expansion. • Up to 5mm of anterior expansion. • Up to 8 degrees of lordosis. <ul style="list-style-type: none"> • Fixed posterior height. • Up to 5mm of anterior expansion. • Up to 15 degrees of lordosis.

EXHIBIT F1 - U.S. PATENT 10,426,633
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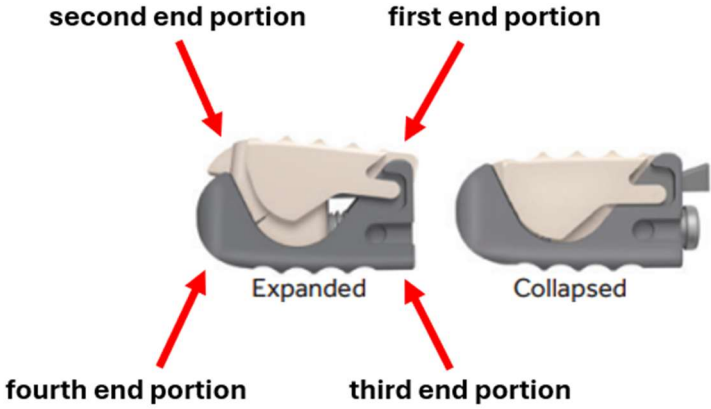
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p data-bbox="690 776 1100 813"><i>See also</i> Rows 19A and 19D.</p> <p data-bbox="690 857 968 894"><u>Exemplary Sources</u></p> <p data-bbox="690 894 1997 1052"> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho </p>
<p data-bbox="107 1078 669 1385">19I 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.</p>	<p data-bbox="690 1078 2007 1192">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.</p> <p data-bbox="690 1235 1940 1312">For example, Medtronic promotional material states that the “PEEK nose is fully recessed within the Titanium Alloy bottom” in the collapsed position.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

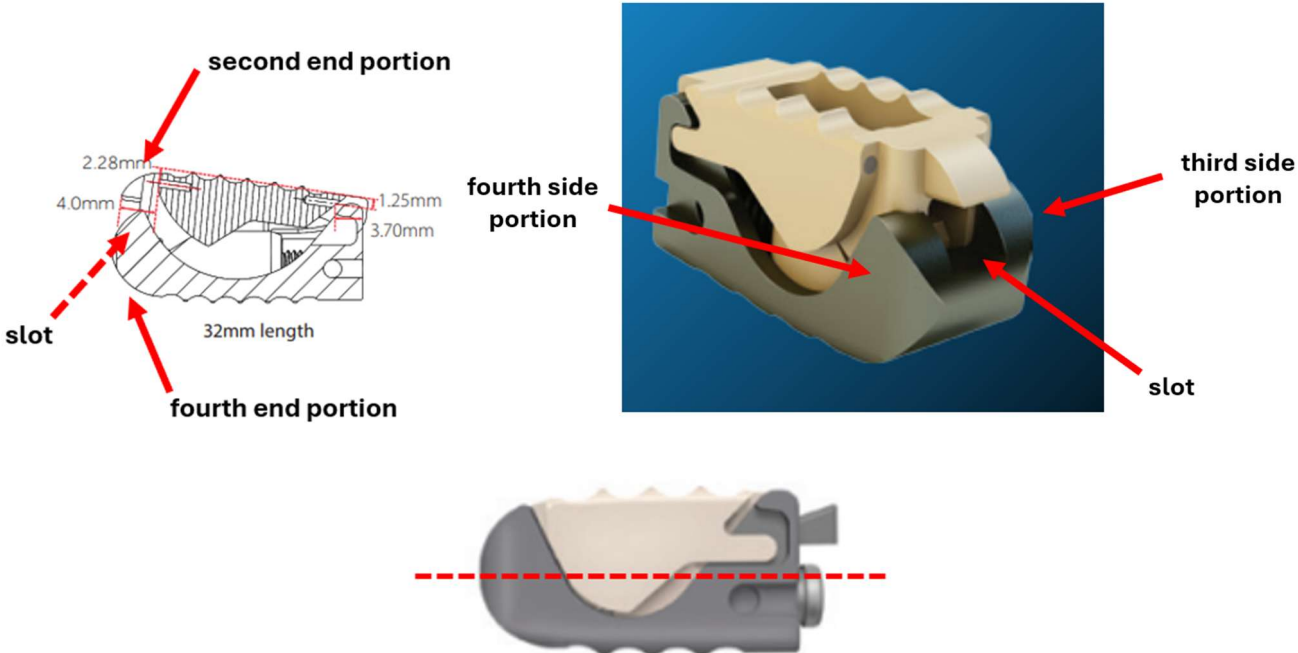
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>the second housing are axially aligned;</p>	 <p>The figure displays three views of a medical device component, likely a catheter tip. The top-left view is a cross-sectional diagram showing internal features with dimensions: 2.28mm, 4.0mm, 1.25mm, 3.70mm, and a 32mm length. Labels with red arrows point to the 'second end portion', 'fourth end portion', and a 'slot'. The top-right view is a 3D perspective model of the component, with labels for the 'fourth side portion', 'third side portion', and a 'slot'. The bottom view is a 3D perspective model of the component from a different angle, with a red dashed line indicating a cross-sectional plane.</p>

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U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="840 341 1711 552"> <p>ment. tip of the</p> <p>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.</p> </div> <div data-bbox="892 560 1837 1274"> <p>STANDARD</p> <p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> <p>CORRECT</p> <p>INCORRECT</p> <p>EXTRA-LORDOTIC</p> <p>Screws are fully retracted</p> </div> <p><i>See also Rows 19A and 19D.</i></p>

EXHIBIT F1 - U.S. PATENT 10,426,633
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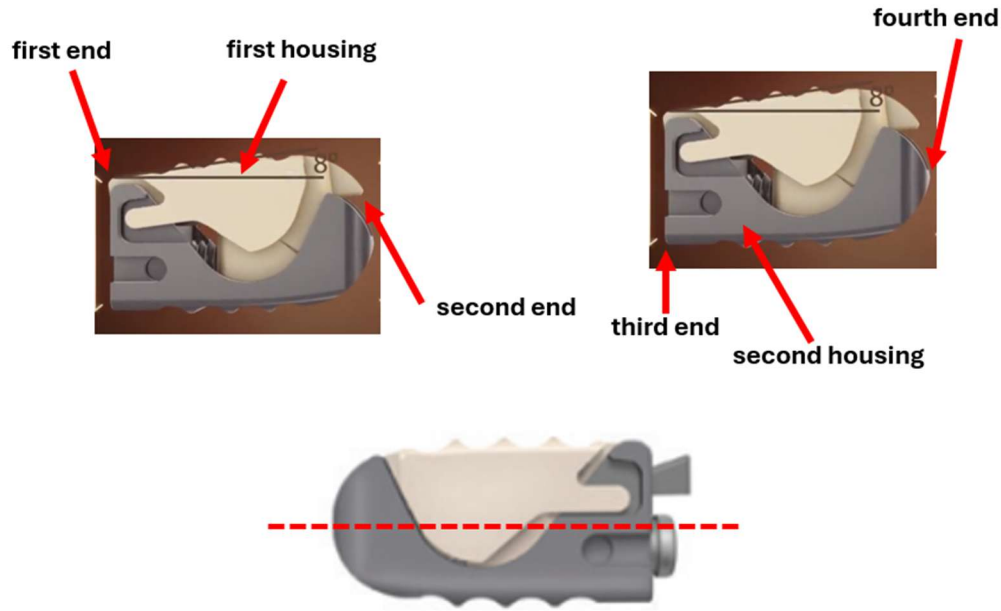
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>19J 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,</p>	<p>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.</p> 

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U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p>Exemplary Sources</p> <p>http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p> <p>https://www.youtube.com/watch?v=Jd81epSn7ho</p>
<p>19K a wedge extending from a fifth end to a sixth end with an angled wedge surface extending along a portion of a distance between the fifth end and the sixth end and with first and second opposing side surfaces on opposite sides of the angled wedge surface,</p>	<p>The '633A Accused Instrumentalities include a wedge extending from a fifth end to a sixth end with an angled wedge surface extending along a portion of a distance between the fifth end and the sixth end and with first and second opposing side surfaces on opposite sides of the angled wedge surface.</p> <div data-bbox="1121 737 1583 1094" data-label="Image"> <p>The diagram shows a cross-sectional view of a wedge-shaped medical device, likely a vertebral body cage. A red arrow points to the top surface, labeled 'angled wedge surface'. Another red arrow points to the top surface, labeled 'wedge'. A red arrow points to the top edge, labeled 'fifth end'. A red arrow points to the bottom edge, labeled 'sixth end'. A dashed red arrow points to the bottom surface, labeled 'Expanded'.</p> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="930 332 1377 623" data-label="Image"> </div> <div data-bbox="1415 332 1776 623" data-label="Image"> </div> <div data-bbox="1066 654 1287 719" data-label="Caption"> <p>first side surface of wedge</p> </div> <div data-bbox="1402 654 1623 719" data-label="Caption"> <p>second side surface of wedge</p> </div> <p data-bbox="688 776 961 812"><u>Exemplary Sources</u></p> <p data-bbox="688 816 1997 930"> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf </p> <p data-bbox="688 935 1381 971"> https://www.youtube.com/watch?v=Jd8lepSn7ho </p>
<p>19L</p> <p>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,</p>	<p>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.</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

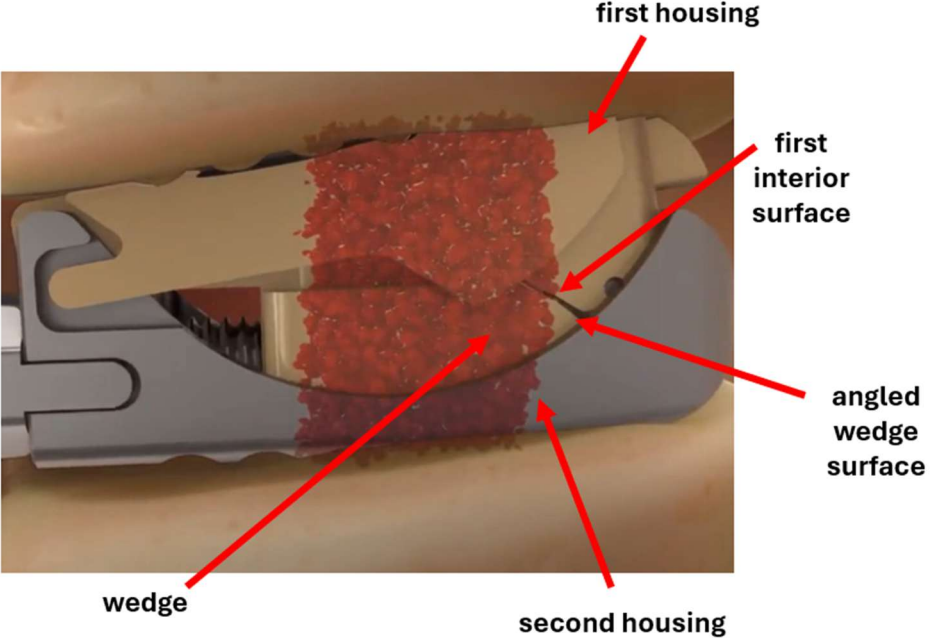
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	 <p>first housing</p> <p>first interior surface</p> <p>angled wedge surface</p> <p>wedge</p> <p>second housing</p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd81epSn7ho</p>
19M	<p>wherein the first interior surface of the first housing has an angled housing surface shaped to engage the angled wedge</p> <p>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.</p>

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Infringement Claim Chart

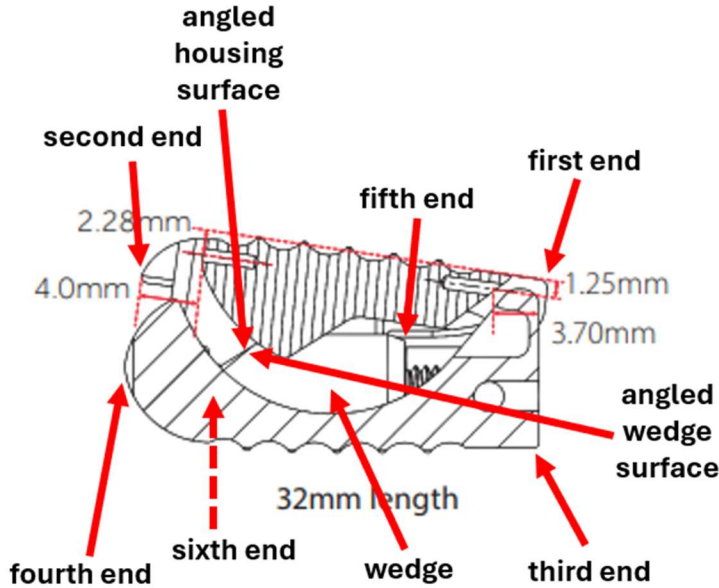
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>surface of the wedge, wherein a distance from the fifth end to the sixth end of the wedge is less than a distance from the first end to the second end of the first housing and is less than a distance from the third end to the fourth end of the second housing,</p>	 <p>See also Rows 19A-19B, 19D, 19K.</p> <p><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</p>
<p>19N wherein the wedge is configured to slide within a</p>	<p>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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

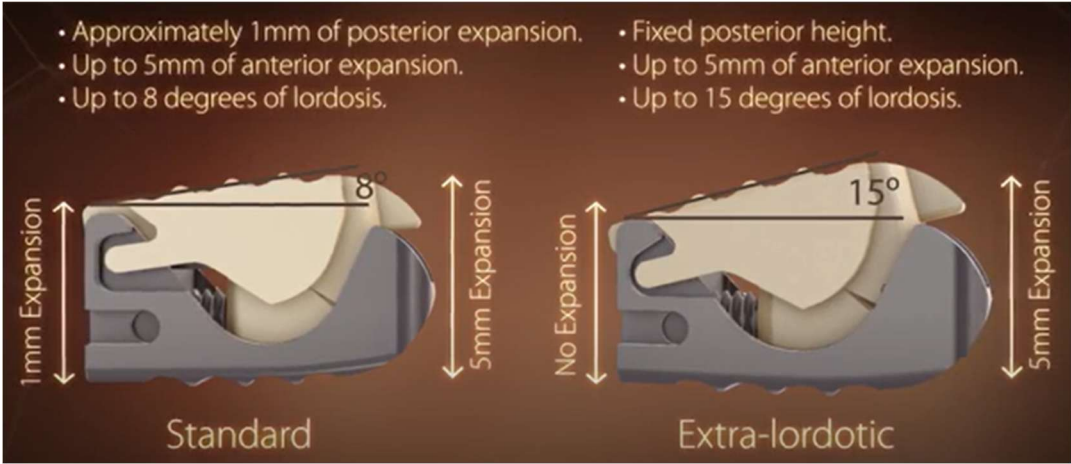
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>space defined between the first and second housings in a direction toward the second and fourth ends of the first and second housings from a first wedge position that allows the first and second housings to pivot to a housing position that 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 between the first and second housings in the first and second wedge positions; and</p>	<p>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.</p> <p>For example, a Medtronic promotional video states that the Elevate Spinal System has “Up to 5mm of anterior expansion.”</p>  <p>The diagram illustrates two cross-sectional views of spinal disc implants. The 'Standard' implant on the left is shown with a wedge shape that provides '1mm Expansion' at the posterior (top) and '5mm Expansion' at the anterior (bottom). It is labeled with '8°' for its lordotic angle. The 'Extra-lordotic' implant on the right is shown with a more pronounced wedge shape, providing 'No Expansion' at the posterior and '5mm Expansion' at the anterior. It is labeled with '15°' for its lordotic angle. Text above the implants lists their characteristics: Standard (Approximately 1mm of posterior expansion, Up to 5mm of anterior expansion, Up to 8 degrees of lordosis) and Extra-lordotic (Fixed posterior height, Up to 5mm of anterior expansion, Up to 15 degrees of lordosis).</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

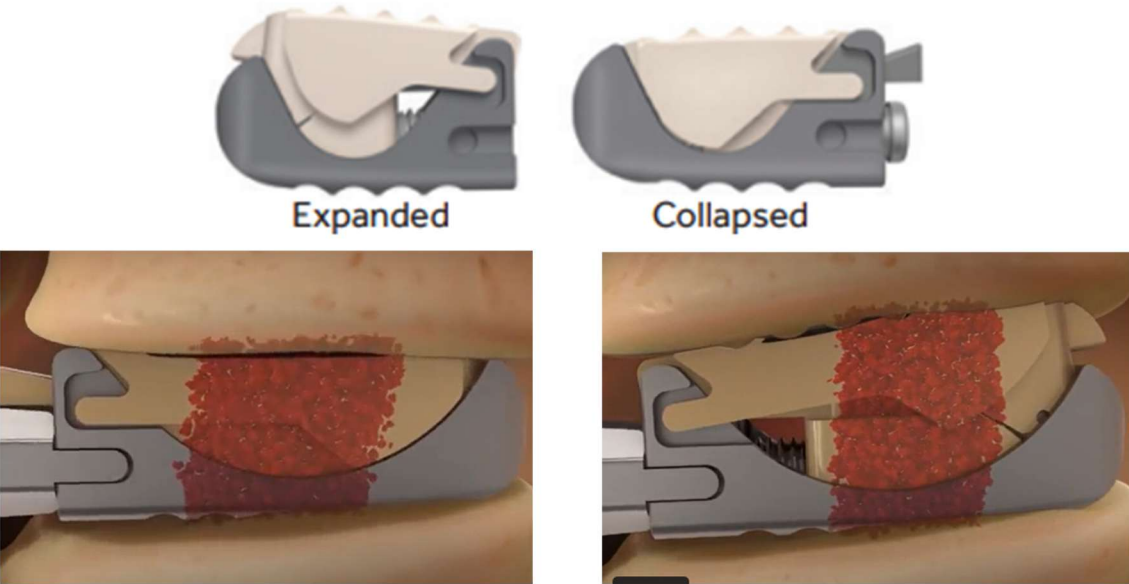
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="793 337 1915 917">  <p>The top row shows two 3D perspective views of the Accuscrew system. The left view is labeled 'Expanded' and shows the wedge fully deployed. The right view is labeled 'Collapsed' and shows the wedge retracted. The bottom row shows two cross-sectional views of the system. The left view shows the wedge in the expanded state with a red granular material (bone graft) filling the space between the wedge and the second housing. The right view shows the wedge in the collapsed state with the red granular material still present.</p> </div> <p><i>See also Rows 19A-19B, 19D, 19H, 19L-19M</i></p> <p><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</p>
<p>19O</p>	<p>a rotation screw operably connected to the wedge and to the second housing, wherein rotation of the rotation screw</p> <p>The '633A 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</p>

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<p>moves the wedge in an axially translating direction with respect to the first housing and the second housing within the space defined between the first and second housings from the first wedge position to the second wedge position.</p>	<p>space defined by the first and second housings from the first wedge position to the second wedge position.</p> <p>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).”</p> <div data-bbox="819 727 1869 1234"> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="919 337 1770 1401"> <p>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.</p> <p>ment. tip of the</p> <div data-bbox="1119 524 1770 1138"> <div> <p>STANDARD</p> <p>PEEK nose is fully recessed within the Titanium Alloy bottom.</p> <p>CORRECT</p> <p>INCORRECT</p> </div> <div> <p>EXTRA-LORDOTIC</p> <p>Screws are fully retracted</p> </div> </div> <div data-bbox="1056 1206 1654 1401"> <p>Expanded Collapsed</p> </div> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

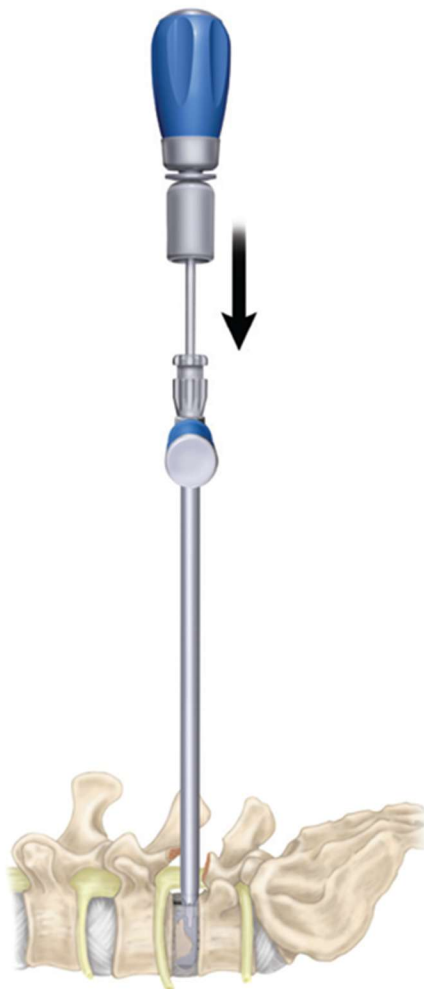
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="871 324 1291 1307"></div> <p data-bbox="1029 1347 1113 1380">Figure 6</p> <div data-bbox="1375 479 1858 1307"></div> <p data-bbox="1470 1347 1554 1380">Figure 7</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
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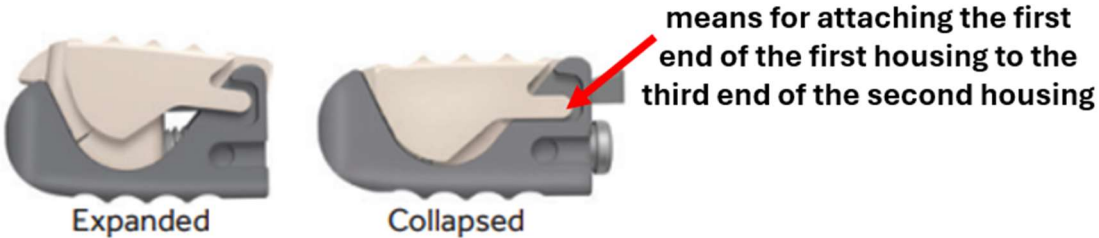
U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		<p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf https://www.youtube.com/watch?v=Jd8lepSn7ho</p>
Row	Claim 20	
20A	<p>A system comprising the device of claim 19, wherein the device further comprises means for attaching the first end of the first housing to the third end of the second housing and wherein the system further comprises:</p>	<p>The '633A Accused Instrumentalities include the limitations of claim 19, as described above.</p> <p>The '633A Accused Instrumentalities include a system that includes the device of claim 19. The device includes means for attaching the first end of the first housing to the third end of the second housing. The system includes the features in Rows 20B-20C below.</p> <div style="text-align: center;">  <p>Expanded Collapsed</p> </div> <p style="text-align: right;">means for attaching the first end of the first housing to the third end of the second housing</p> <p><i>See also Rows 19A and 19D.</i></p> <p><u>Exemplary Sources</u> http://www.neurosurgeryresident.net/Op.%20Operative%20Techniques/00.%20Catalogs,%20Brochures,%20Manuals/Medtronic/Spine/Medtronic%20-%20ELEVATE%20(expandable%20cage).pdf</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633		Medtronic Infringing Activity ^{1,2}
		https://www.youtube.com/watch?v=Jd8lepSn7ho
20B	means for gripping and inserting the device; and	<p>The system includes means for gripping and inserting the device.</p> <p>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.”</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
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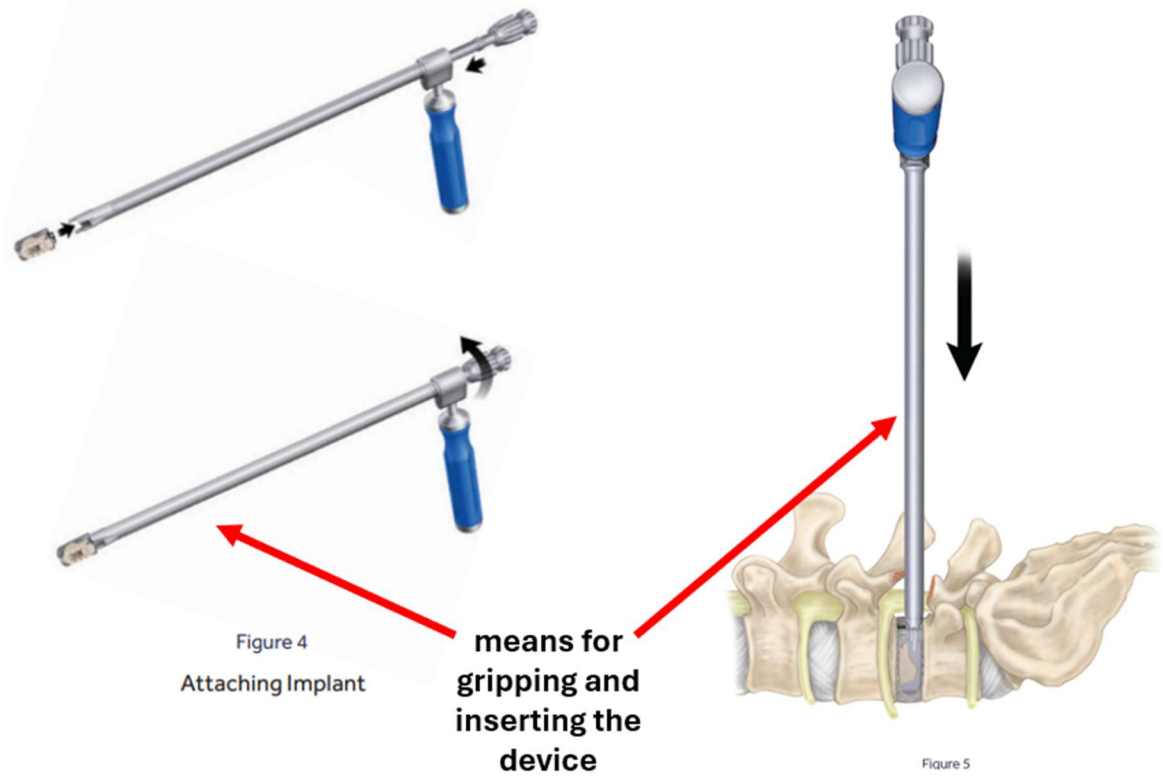
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<div data-bbox="787 324 1942 1096"><p data-bbox="961 950 1150 1015">Figure 4 Attaching Implant</p><p data-bbox="1234 950 1423 1096">means for gripping and inserting the device</p><p data-bbox="1696 1071 1759 1096">Figure 5</p></div> <p data-bbox="688 1144 961 1177"><u>Exemplary Sources</u></p> <p data-bbox="688 1185 1995 1339">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</p>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

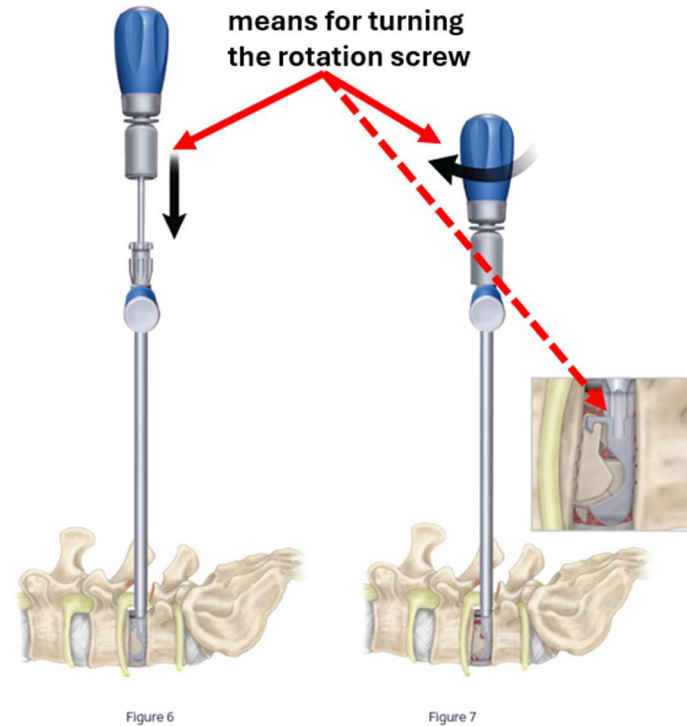
U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
<p>20C means for turning the rotation screw with respect to the second movable portion and the wedge.</p>	<p>The system includes means for turning the rotation screw with respect to the second movable portion and the wedge.</p> <p>For example, 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).”</p> <div data-bbox="1008 682 1690 1404">  <p style="text-align: center;">Figure 6 Figure 7</p> </div>

EXHIBIT F1 - U.S. PATENT 10,426,633
Infringement Claim Chart

U.S. Patent 10,426,633	Medtronic Infringing Activity ^{1,2}
	<p>nt. of the</p> <p>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.</p> <div data-bbox="1008 454 1659 1023"> <p>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'.</p> </div> <p>See also Claim 19, Row 19O.</p> <p><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</p>