

Exhibit G1

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1, 2}
Row	Claim 1	
1A	A intervertebral combination internal screw guide and fixation apparatus configured to be inserted into a disc space between a first vertebral body and a second vertebral body and to provide fusion of the first vertebral body to the second vertebral body via biological bone fusion and screw fusion, the apparatus comprising:	To the extent the preamble is limiting, the '183 Accused Instrumentalities include an intervertebral combination internal screw guide and fixation apparatus configured to be inserted into a disc space between a first vertebral body and a second vertebral body and to provide fusion of the first vertebral body to the second vertebral body via biological bone fusion and screw fusion. For example, Medtronic promotional material states “The Sovereign™ spinal system is an intervertebral body fusion device with internal screw fixation. The screws protrude through the interbody portion of the device and stabilize the vertebral body while preventing expulsion of the implant.” This material further states that “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1” and “When used as a stand-alone device, the Sovereign™ interbody device is intended to be used with 3 titanium alloy fixed or variable angle screws.”

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.

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Infringement Claim Chart**

U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
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1B	an intervertebral cage including: a top wall, a bottom wall, and sidewalls defining a fusion material space capable of receiving bone filling for the biological bone fusion; The '183 Accused Instrumentalities include an intervertebral cage including a top wall, a bottom wall, and sidewalls defining a fusion material space capable of receiving bone filling for the biological bone fusion. For example, Medtronic promotional material states “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1.”

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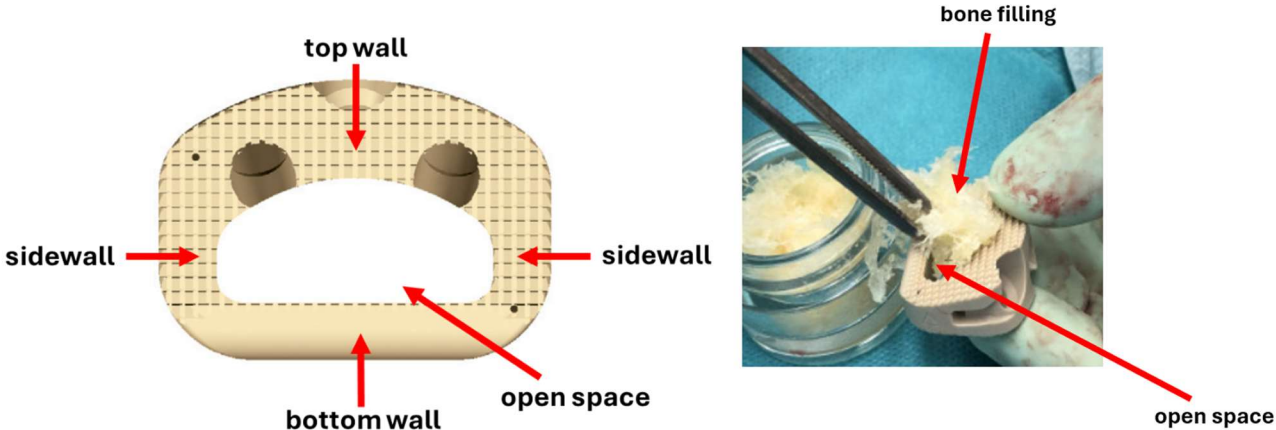
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1C	an internal screw guide having a screw entrance portion and an internal bore portion, wherein the screw entrance portion is larger than and coaxial with the The '183 Accused Instrumentalities include an internal screw guide having a screw entrance portion and an internal bore portion, wherein the screw entrance portion is larger than and coaxial with the internal bore and is formed at least partially in a top surface of the top wall as viewed from a top of the intervertebral cage, wherein the internal bore portion has an entry opening formed only in a top surface of the top wall as viewed from the top of the

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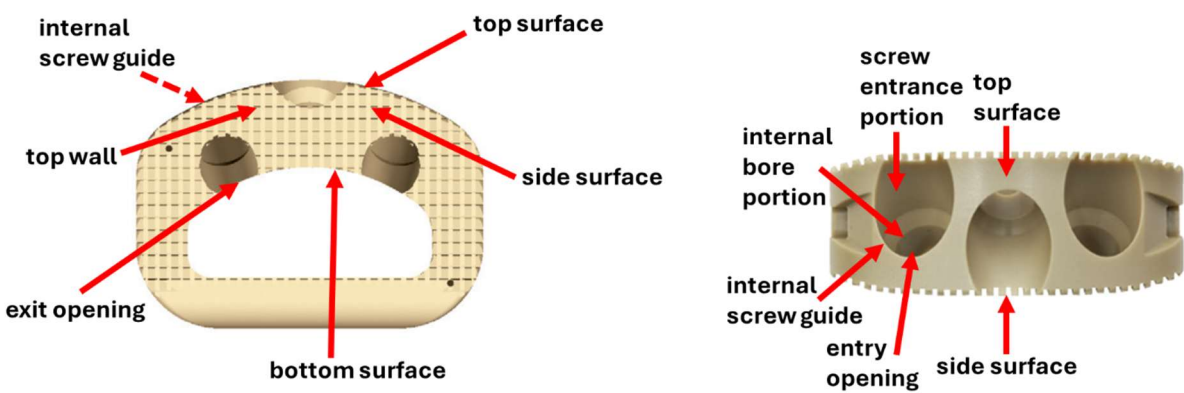
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
internal bore and is formed at least partially in a top surface of the top wall as viewed from a top of the intervertebral cage, wherein the internal bore portion has an entry opening formed only in a top surface of the top wall as viewed from the top of the intervertebral cage and has an exit opening formed at least partially in a bottom surface of the top wall and at least partially in a side surface of the top wall;	intervertebral cage and has an exit opening formed at least partially in a bottom surface of the top wall and at least partially in a side surface of the top wall.  <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/ https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
1D a second internal screw guide having a second screw entrance portion and a second internal bore portion, wherein the	The '183 Accused Instrumentalities include a second internal screw guide having a second screw entrance portion and a second internal bore portion, wherein the second screw entrance portion is larger than and coaxial with the second internal bore and is formed at least partially in the top surface of the top wall as viewed from the top, wherein the second internal bore

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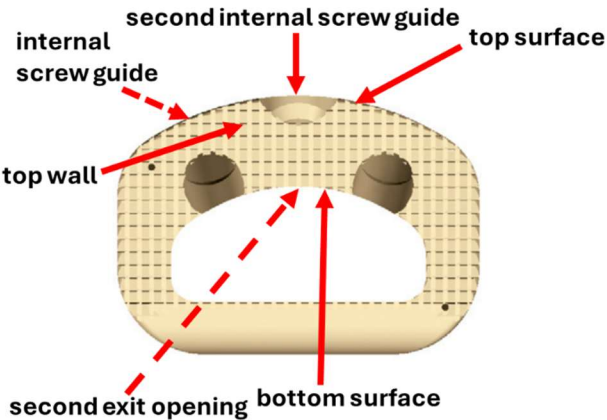
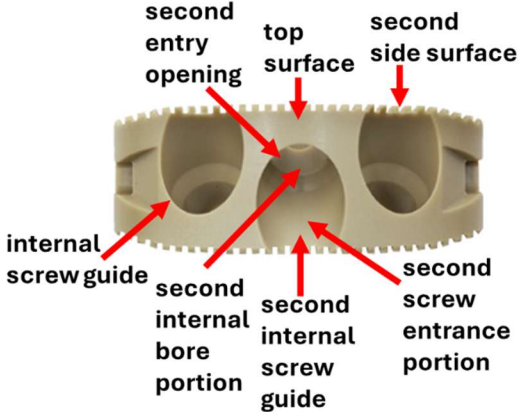
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second screw entrance portion is larger than and coaxial with the second internal bore and is formed at least partially in the top surface of the top wall as viewed from the top, wherein the second internal bore portion has a second entry opening formed only in the top surface of the top wall as viewed from the top of the intervertebral cage and has a second exit opening formed at least partially in the bottom surface of the top wall and at least partially in a second side surface of the top wall, and wherein the internal screw guide and the second internal screw guide are angled to orient a first screw member and a second member bi-directionally in opposite directions;	portion has a second entry opening formed only in the top surface of the top wall as viewed from the top of the intervertebral cage and has a second exit opening formed at least partially in the bottom surface of the top wall and at least partially in a second side surface of the top wall, and wherein the internal screw guide and the second internal screw guide are angled to orient a first screw member and a second member bi-directionally in opposite directions.  

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1E a first slot on a first outer side of a first sidewall of the sidewalls; a second slot on a second outer side of a second sidewall of the	The '183 Accused Instrumentalities include a first slot on a first outer side of a first sidewall of the sidewalls, a second slot on a second outer side of a second sidewall of the sidewalls, wherein the second slot is positioned opposite of the first slot, wherein the first slot is positioned along a first centerline axis that bisects the first sidewall and is positioned nearer a top of the intervertebral cage than a bottom of the intervertebral cage, wherein the second slot

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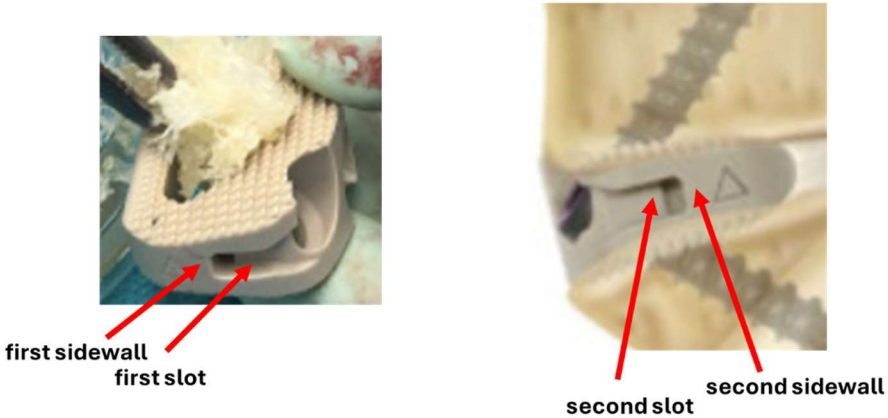
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sidewalls, wherein the second slot is positioned opposite of the first slot; wherein the first slot is positioned along a first centerline axis that bisects the first sidewall and is positioned nearer a top of the intervertebral cage than a bottom of the intervertebral cage, wherein the second slot is positioned along a second centerline axis that bisects the second sidewall and is positioned nearer the top of the intervertebral cage than the bottom of the intervertebral cage,	is positioned along a second centerline axis that bisects the second sidewall and is positioned nearer the top of the intervertebral cage than the bottom of the intervertebral cage.  first sidewall first slot second slot second sidewall <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
1F wherein the side surface and the second side surface of the top wall are patterned with a plurality of surface features to	The side surface and the second side surface of the top wall are patterned with a plurality of surface features to create rough side surfaces, wherein at least some of the plurality of surface features are positioned on the side surface between the top wall and the exit opening.

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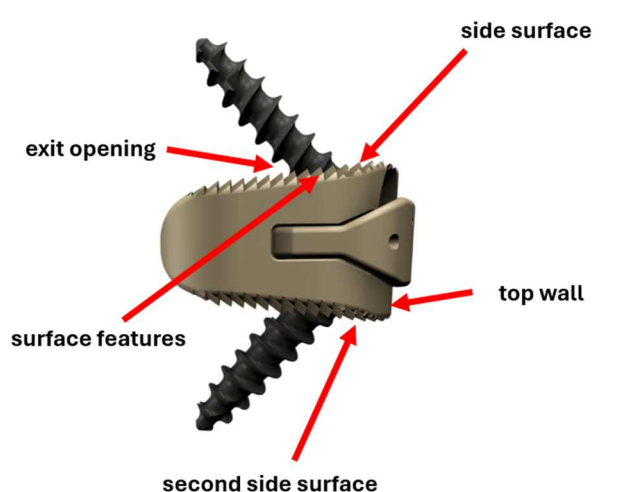
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create rough side surfaces, wherein at least some of the plurality of surface features are positioned on the side surface between the top wall and the exit opening, and	 The diagram shows a perspective view of a surgical retractor system. A central, light-colored, C-shaped body is shown. It has a top wall and a bottom wall. On the side surfaces, there are multiple rows of dark, pointed surface features. Red arrows point to these features with labels: 'side surface' (top), 'exit opening' (top), 'surface features' (middle), 'top wall' (right), and 'second side surface' (bottom). The bottom wall also has similar surface features. <u>Exemplary Sources</u> https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html
1G wherein the top wall, the bottom wall, and the sidewalls are integrally formed and the fusion material space for receiving bone graft material extends continuously from an inner surface of the top wall to an inner surface of the bottom wall;	The top wall, the bottom wall, and the sidewalls are integrally formed and the fusion material space for receiving bone graft material extends continuously from an inner surface of the top wall to an inner surface of the bottom wall.

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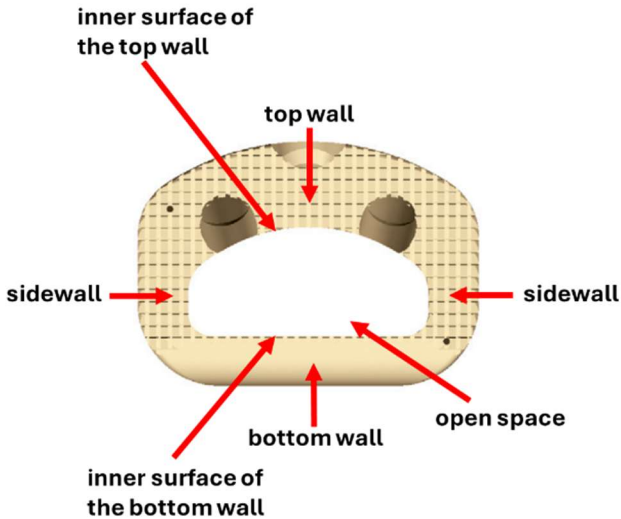
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	 The diagram shows a cross-section of a screw head. It features a central 'open space' surrounded by a 'bottom wall' and 'sidewall'. The top of the head is defined by a 'top wall' and its 'inner surface of the top wall'. The bottom of the head is defined by an 'inner surface of the bottom wall'. <i>See also Row 1B.</i> <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
1H	a first screw having a first screw head and a first screw shaft The '183 Accused Instrumentalities include a first screw having a first screw head and a first screw shaft having a first screw threaded portion, wherein the screw entrance portion of the

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having a first screw threaded portion, wherein the screw entrance portion of the internal screw guide is sized large enough to receive at least part of the first screw head and wherein the internal bore portion of the internal screw guide is sized with a smaller diameter than the screw entrance portion and is sized to receive the first screw shaft of the first screw;	internal screw guide is sized large enough to receive at least part of the first screw head and wherein the internal bore portion of the internal screw guide is sized with a smaller diameter than the screw entrance portion and is sized to receive the first screw shaft of the first screw. For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.” The diagram shows a cross-section of a spinal device, likely a pedicle screw or a similar fixation device. It features a central body with a top wall and a bottom wall. Two screws are shown: one on the left and one on the right. The left screw is labeled with 'first screw head' at its top, 'first screw shaft' at its middle, and 'first screw threaded portion' at its bottom. The right screw is labeled with 'second screw head' at its top, 'second screw shaft' at its middle, and 'second screw threaded portion' at its bottom. A red arrow points to the top wall of the device. The screws are shown passing through the device, with their heads at the top and their shafts extending downwards.

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II a second screw having a second screw head and a second screw threaded portion, wherein the second screw entrance portion of the second internal screw guide is sized large enough to receive at least part of the second screw head and wherein the second internal bore portion of the second internal screw guide is sized with a smaller diameter than the second screw entrance portion and is sized to receive the second screw shaft of the second screw; and	The '183 Accused Instrumentalities include a second screw having a second screw head and a second screw threaded portion, wherein the second screw entrance portion of the second internal screw guide is sized large enough to receive at least part of the second screw head and wherein the second internal bore portion of the second internal screw guide is sized with a smaller diameter than the second screw entrance portion and is sized to receive the second screw shaft of the second screw. For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.”

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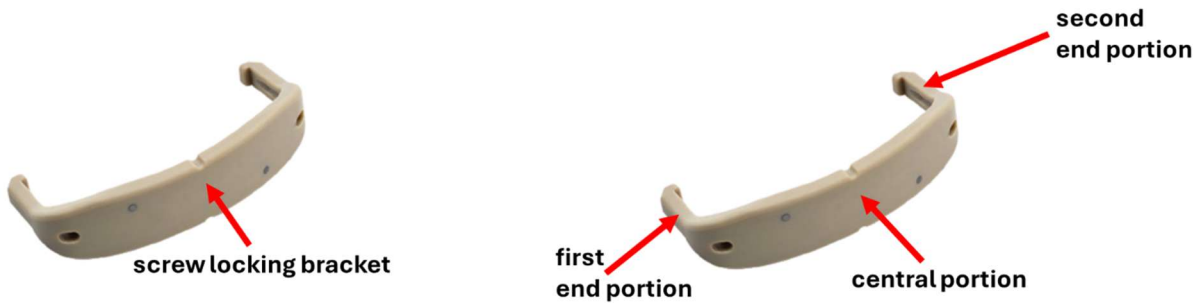
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1J a screw locking bracket having a first end portion sized and positioned to be inserted into the first slot, a second end portion sized and positioned to be inserted into the second slot and a central portion extending between the first end portion and the second end portion, wherein when the screw locking bracket is connected to the intervertebral cage with the first end portion in the first slot and the second end portion in the second slot, the central portion partially blocks the screw entrance portion and the second screw entrance portion so as to retain the first and second screws in the internal screw guide and the second internal screw guide while leaving at least a portion of each of the first and second screw heads at least partially visible through gaps between the screw locking	The '183 Accused Instrumentalities include a screw locking bracket having a first end portion sized and positioned to be inserted into the first slot, a second end portion sized and positioned to be inserted into the second slot and a central portion extending between the first end portion and the second end portion, wherein when the screw locking bracket is connected to the intervertebral cage with the first end portion in the first slot and the second end portion in the second slot, the central portion partially blocks the screw entrance portion and the second screw entrance portion so as to retain the first and second screws in the internal screw guide and the second internal screw guide while leaving at least a portion of each of the first and second screw heads at least partially visible through gaps between the screw locking bracket and the intervertebral cage. 

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bracket and the intervertebral cage.	This diagram shows a top-down view of a screw locking bracket. It is a rectangular, light-colored plastic component with two dark-colored screws passing through it. Red arrows point to the 'screw entrance portion' on the left, the 'screw locking bracket' (the central body), the 'central portion' (the middle of the bracket), and the 'second screw entrance portion' on the right. This diagram shows a side view of the same screw locking bracket. It is a light-colored plastic component with a dark-colored screw passing through it. Red arrows point to the 'first slot' (a notch on the top), the 'first end portion' (the left side), and the 'screw locking bracket' (the main body). <i>See also Claim 1, Row 1E.</i> <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 2
2	The apparatus of claim 1, wherein the screw locking bracket abuts both the first and second screw heads when the The '183 Accused Instrumentalities include the limitations of claim 1, as described above. The screw locking bracket abuts both the first and second screw heads when the screw locking bracket is connected to the intervertebral cage.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
screw locking bracket is connect to the intervertebral cage.	<i>See also Claim 1, Row 1J.</i> <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

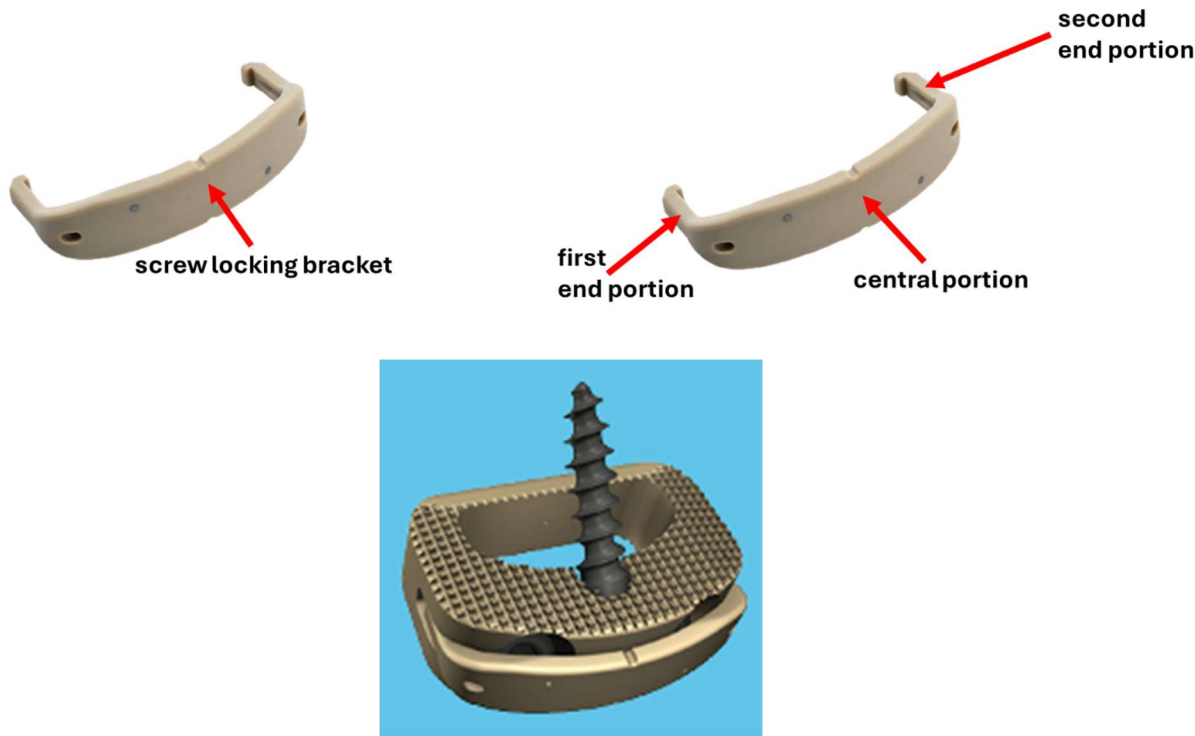
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
Row	Claim 3	
3	The apparatus of claim 1, wherein the screw locking bracket is at least partially U-shaped such that the first and second end portions wrap at least partially around the first and second sidewalls.	The '183 Accused Instrumentalities include the limitations of claim 1, as described above. The screw locking bracket is at least partially U-shaped such that the first and second end portions wrap at least partially around the first second sidewalls.  The images show a U-shaped screw locking bracket. The top view labels the 'first end portion', 'central portion', and 'second end portion'. The bottom view shows the bracket with a screw and a textured base. <i>See also Claim 1, Row 1J.</i>

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		<u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 4	
4	The apparatus of claim 1, wherein the plurality of surface features on the side surface and the second side surface are patterned all the way next to the top surface of the top wall so as to be adjacent the top surface of the top wall.	The '183 Accused Instrumentalities include the limitations of claim 1, as described above. The plurality of surface features on the side surface and the second side surface are patterned all the way next to the top surface of the top wall so as to be adjacent the top surface of the top wall.

EXHIBIT G1 - U.S. PATENT 10,603,183
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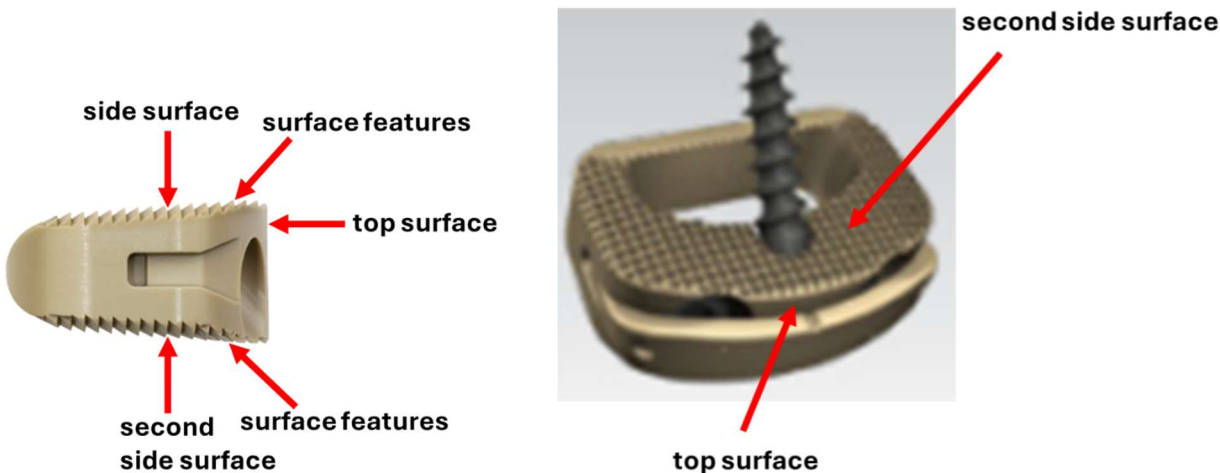
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		 See also Claim 1, Rows 1F and 1G. <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 6	
6	The apparatus of claim 1, wherein the intervertebral cage	The '183 Accused Instrumentalities include the limitations of claim 1, as described above.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
is sized and configured for use in a patient's lumbar spine, the apparatus further comprising means for fusing superior and inferior lumbar vertebral bodies in conjunction with the intervertebral cage.	The intervertebral cage is sized and configured for use in a patient's lumbar spine. The '183 Accused Instrumentalities further include means for fusing superior and inferior lumbar vertebral bodies in conjunction with the intervertebral cage. For example, Medtronic promotional material states “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1.” means for fusing superior and inferior lumbar vertebral bodies in conjunction with the intervertebral cage <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

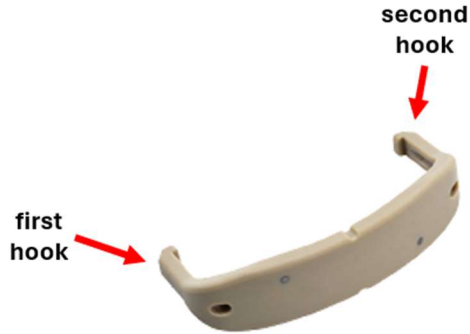
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 8	
8	The apparatus of claim 1, wherein the screw locking bracket comprises a first hook at the first end portion that curves inward to engage the first slot and a second hook at the second end portion that curves inward to engage the second slot.	The '183 Accused Instrumentalities include the limitations of claim 1, as described above. The screw locking bracket comprises a first hook at the first end portion that curves inward to engage the first slot and a second hook at the second end portion that curves inward to engage the second slot.  <i>See also Claim 1, Row 1J.</i> <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 9	
9	The apparatus of claim 1, wherein the screw locking bracket comprises means to slightly open the screw locking bracket.	The '183 Accused Instrumentalities include the limitations of claim 1, as described above. The screw locking bracket includes means to slightly open the screw locking bracket. For example, Medtronic promotional material for the Sovereign™ spinal system states “If it becomes necessary to remove the Interbody Spacer, remove the Coverplate using the Coverplate Remover. This is done by inserting the ball tip end of the instrument into the side hole in the Coverplate. Flex the arm out to loosen it from the Interbody Spacer and then pull back the Coverplate from the Interbody Spacer Construct.”

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

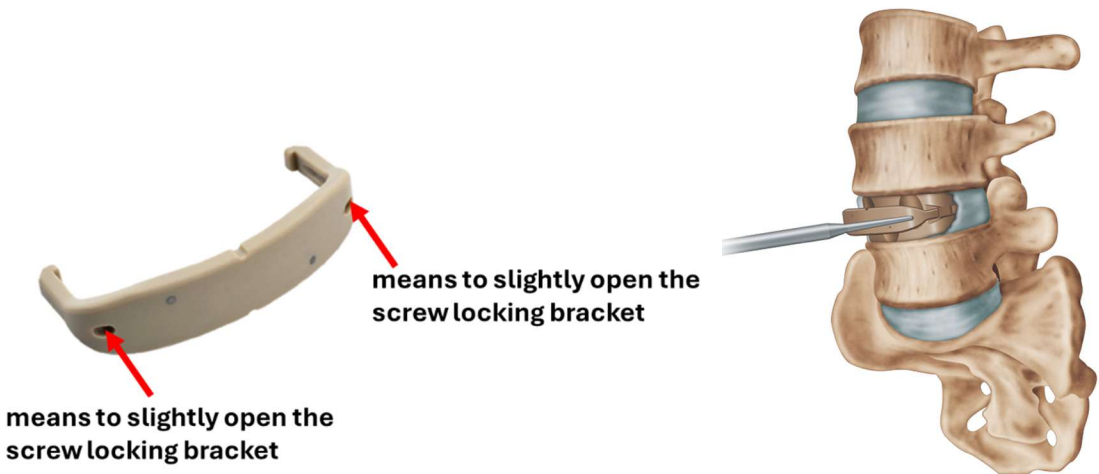
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		 The diagram shows a perspective view of a curved, beige-colored screw locking bracket on the left. Two red arrows point to small circular features on the bracket, each with the text 'means to slightly open the screw locking bracket'. To the right is a sagittal cross-section of a lumbar vertebra with a pedicle screw inserted. A surgical instrument is shown engaging the screw, illustrating the application of the bracket. <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 10	
10	The apparatus of claim 1, wherein the screw locking	The '183 Accused Instrumentalities include the limitations of claim 1, as described above. The screw locking bracket is configured to be press fit to the intervertebral cage.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

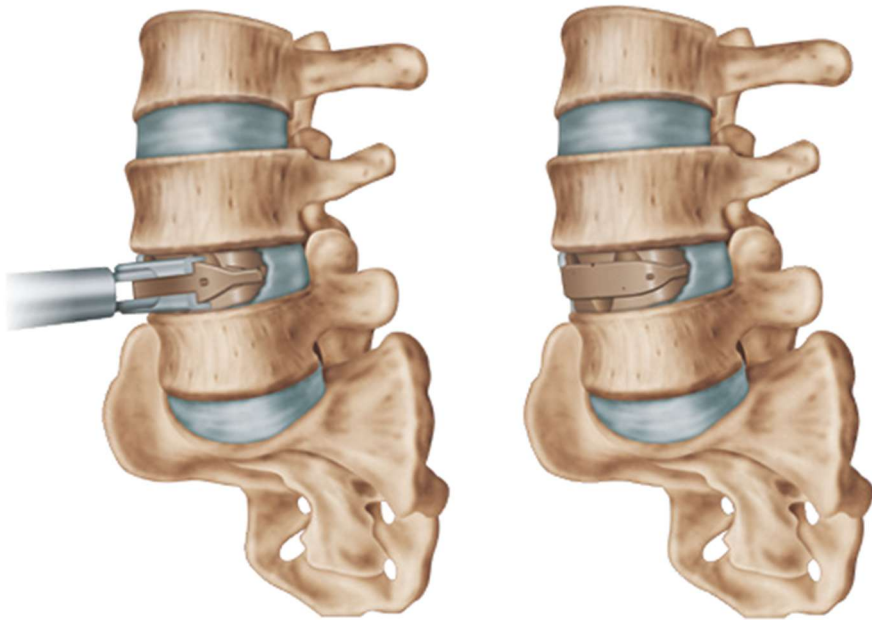
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
bracket is configured to be press fit to the intervertebral cage.	For example, Medtronic promotional material for the Sovereign™ spinal system instructs the user to “Attach the Coverplate by aligning it to the grooves in the side of the Interbody Spacer (Figure 15). Push down on the Coverplate until it snaps into place (Figure 16). Both sides should snap into place.”  <i>See also Claim 1, Rows 1E and 1J.</i>

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		<u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 11	
11A	A intervertebral combination internal screw guide and fixation apparatus configured to be inserted into a disc space between a first vertebral body and a second vertebral body and to provide fusion of the first vertebral body to the second vertebral body via biological bone fusion and screw fusion, the apparatus comprising:	To the extent the preamble is limiting, the '183 Accused Instrumentalities include an intervertebral combination internal screw guide and fixation apparatus configured to be inserted into a disc space between a first vertebral body and a second vertebral body and to provide fusion of the first vertebral body to the second vertebral body via biological bone fusion and screw fusion. For example, Medtronic promotional material states “The Sovereign™ spinal system is an intervertebral body fusion device with internal screw fixation. The screws protrude through the interbody portion of the device and stabilize the vertebral body while preventing expulsion of the implant.” This material further states that “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1” and “When used as a stand-alone device, the Sovereign™ interbody device is intended to be used with 3 titanium alloy fixed or variable angle screws.”

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	<u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
11B	an intervertebral cage including: a top wall, a bottom wall, and first and second sidewalls defining a fusion material space capable of receiving bone filling for the biological bone fusion; The '183 Accused Instrumentalities include an intervertebral cage including a top wall, a bottom wall, and first and second sidewalls defining a fusion material space capable of receiving bone filling for the biological bone fusion. For example, Medtronic promotional material states “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1.”

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U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
	<u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
11C	an internal screw guide having a screw entrance portion and an internal bore portion, wherein the screw entrance portion is larger than and coaxial with the The '183 Accused Instrumentalities include an internal screw guide having a screw entrance portion and an internal bore portion, wherein the screw entrance portion is larger than and coaxial with the internal bore and is formed at least partially in a top surface of the top wall as viewed from a top of the intervertebral cage, wherein the internal bore portion has an entry opening formed only in a top surface of the top wall as viewed from the top of the

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

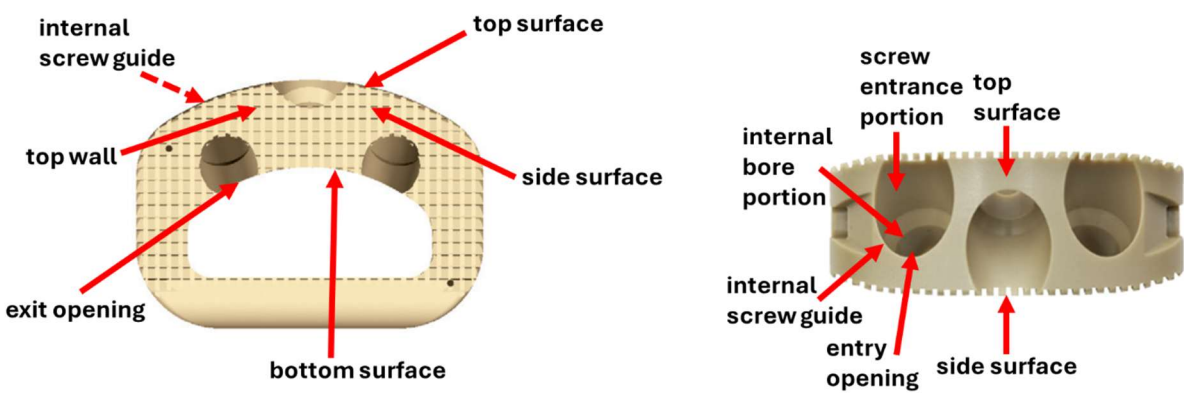
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
internal bore and is formed at least partially in a top surface of the top wall as viewed from a top of the intervertebral cage, wherein the internal bore portion has an entry opening formed only in a top surface of the top wall as viewed from the top of the intervertebral cage and has an exit opening formed at least partially in a bottom surface of the top wall and at least partially in a side surface of the top wall;	intervertebral cage and has an exit opening formed at least partially in a bottom surface of the top wall and at least partially in a side surface of the top wall.  <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/ https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
11D a second internal screw guide having a second screw entrance portion and a second internal bore portion, wherein the	The '183 Accused Instrumentalities include a second internal screw guide having a second screw entrance portion and a second internal bore portion, wherein the second screw entrance portion is larger than and coaxial with the second internal bore and is formed at least partially in the top surface of the top wall as viewed from the top, wherein the second internal bore

EXHIBIT G1 - U.S. PATENT 10,603,183
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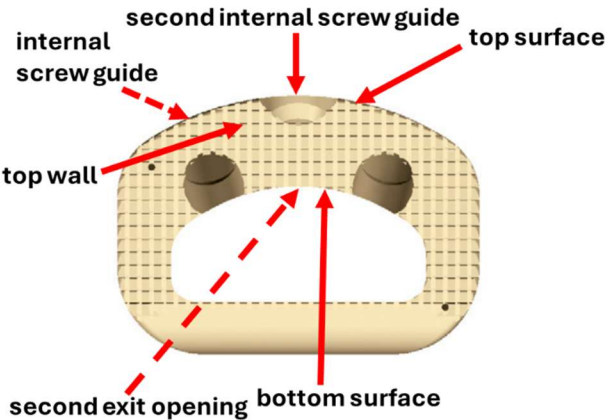
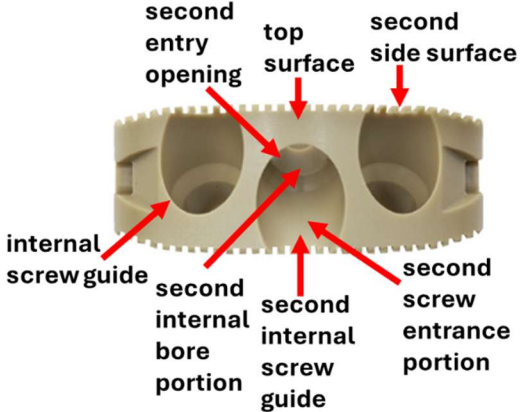
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
second screw entrance portion is larger than and coaxial with the second internal bore and is formed at least partially in the top surface of the top wall as viewed from the top, wherein the second internal bore portion has a second entry opening formed only in the top surface of the top wall as viewed from the top of the intervertebral cage and has a second exit opening formed at least partially in the bottom surface of the top wall and at least partially in a second side surface of the top wall, and wherein the internal screw guide and the second internal screw guide are angled to orient a first screw member and a second member bi-directionally in opposite directions;	portion has a second entry opening formed only in the top surface of the top wall as viewed from the top of the intervertebral cage and has a second exit opening formed at least partially in the bottom surface of the top wall and at least partially in a second side surface of the top wall, and wherein the internal screw guide and the second internal screw guide are angled to orient a first screw member and a second member bi-directionally in opposite directions.  

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	<u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
11E	a first slot extending at least partially into the first sidewall; a second slot extending at least partially into the second sidewall, wherein the second The '183 Accused Instrumentalities include a first slot extending at least partially into the first sidewall; a second slot extending at least partially into the second sidewall, wherein the second slot is positioned opposite of the first slot; wherein the first slot is positioned along a first centerline axis that bisects the first sidewall and is positioned nearer a top of the intervertebral cage than a bottom of the intervertebral cage, wherein the second slot is positioned along a

EXHIBIT G1 - U.S. PATENT 10,603,183
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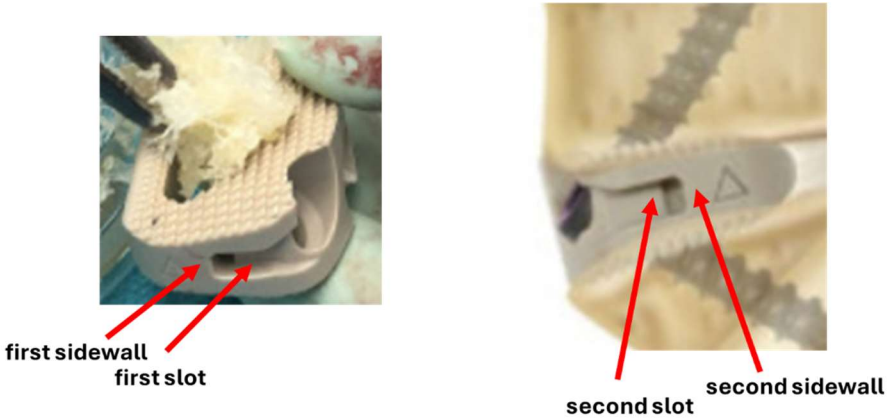
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
slot is positioned opposite of the first slot; wherein the first slot is positioned along a first centerline axis that bisects the first sidewall and is positioned nearer a top of the intervertebral cage than a bottom of the intervertebral cage, wherein the second slot is positioned along a second centerline axis that bisects the second sidewall and is positioned nearer the top of the intervertebral cage than the bottom of the intervertebral cage,	second centerline axis that bisects the second sidewall and is positioned nearer the top of the intervertebral cage than the bottom of the intervertebral cage.  first sidewall first slot second slot second sidewall <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
11F wherein the side surface and the second side surface of the top wall are patterned with a plurality of surface features to	The side surface and the second side surface of the top wall are patterned with a plurality of surface features to create rough side surfaces, wherein at least some of the plurality of surface features are positioned on the side surface between the top wall and the exit opening.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

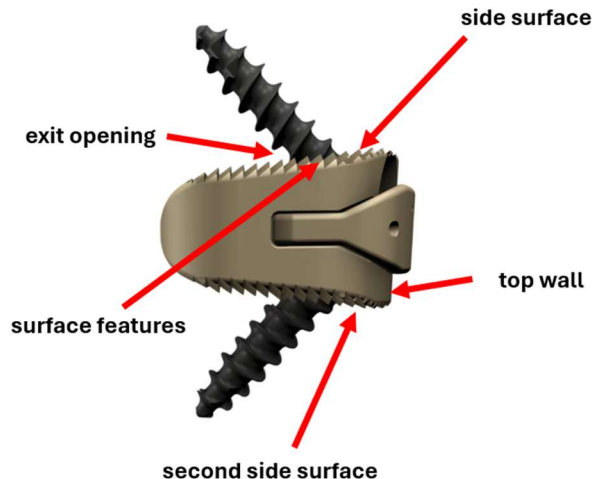
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
create rough side surfaces, wherein at least some of the plurality of surface features are positioned on the side surface between the top wall and the exit opening, and	 <u>Exemplary Sources</u> https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html
11G wherein the top wall, the bottom wall, and the sidewalls are integrally formed;	The top wall, the bottom wall, and the sidewalls are integrally formed.

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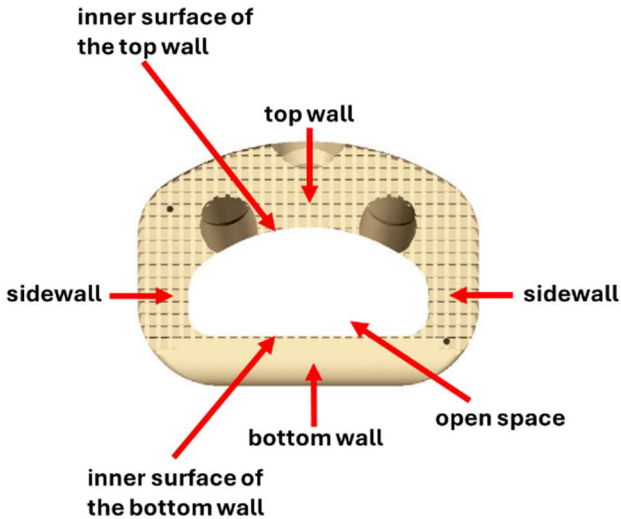
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
	 The diagram shows a cross-section of a vertebral body. It features a central white 'open space' surrounded by a yellowish-brown structure. Red arrows point to various parts: 'inner surface of the top wall' (top left), 'top wall' (top center), 'sidewall' (left and right sides), 'bottom wall' (bottom center), and 'inner surface of the bottom wall' (bottom left). The entire structure is covered with a grid of small dots. <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
11H	a first screw having a first screw head and a first screw shaft having a first screw threaded portion, wherein the screw The '183 Accused Instrumentalities include a first screw having a first screw head and a first screw shaft having a first screw threaded portion, wherein the screw entrance portion of the internal screw guide is sized large enough to receive at least part of the first screw head and

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entrance portion of the internal screw guide is sized large enough to receive at least part of the first screw head and wherein the internal bore portion of the internal screw guide is sized with a smaller diameter than the screw entrance portion and is sized to receive the first screw shaft of the first screw;	wherein the internal bore portion of the internal screw guide is sized with a smaller diameter than the screw entrance portion and is sized to receive the first screw shaft of the first screw. For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.” The diagram shows a cross-sectional view of a spinal screw assembly. A central, light-colored cylindrical component (the internal screw guide) has a wider top section and a narrower central bore. Two screws are shown passing through this component. The top screw is labeled with 'first screw head' pointing to its top flange, 'second screw threaded portion' pointing to its upper shaft, and 'second screw shaft' pointing to its lower shaft. The bottom screw is labeled with 'first screw shaft' pointing to its lower shaft, 'first screw threaded portion' pointing to its lower shaft, and 'second screw head' pointing to its top flange. A 'top wall' label points to the upper edge of the central component. Red arrows indicate the alignment of the screws with the internal guide's openings.

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Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}																																				
		Screws 20mm, 25mm, 30mm and 35mm standard lengths. Available in Variable Angle and Fixed Angle designs.   Variable Angle Screws <table><thead><tr><th>Part Number</th><th>(Diameter × Length)</th></tr></thead><tbody><tr><td>7965520</td><td>5.5mm × 20mm</td></tr><tr><td>7965525</td><td>5.5mm × 25mm</td></tr><tr><td>7965530</td><td>5.5mm × 30mm</td></tr><tr><td>7965535</td><td>5.5mm × 35mm</td></tr><tr><td>7966020</td><td>6.0mm × 20mm</td></tr><tr><td>7966025</td><td>6.0mm × 25mm</td></tr><tr><td>7966030</td><td>6.0mm × 30mm</td></tr><tr><td>7966035</td><td>6.0mm × 35mm</td></tr></tbody></table> Fixed Angle Screws <table><thead><tr><th>Part Number</th><th>(Diameter × Length)</th></tr></thead><tbody><tr><td> 7975520</td><td>5.5mm × 20mm</td></tr><tr><td> 7975525</td><td>5.5mm × 25mm</td></tr><tr><td> 7975530</td><td>5.5mm × 30mm</td></tr><tr><td> 7975535</td><td>5.5mm × 35mm</td></tr><tr><td> 7976020</td><td>6.0mm × 20mm</td></tr><tr><td> 7976025</td><td>6.0mm × 25mm</td></tr><tr><td> 7976030</td><td>6.0mm × 30mm</td></tr><tr><td> 7976035</td><td>6.0mm × 35mm</td></tr></tbody></table> Exemplary Sources https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf	Part Number	(Diameter × Length)	7965520	5.5mm × 20mm	7965525	5.5mm × 25mm	7965530	5.5mm × 30mm	7965535	5.5mm × 35mm	7966020	6.0mm × 20mm	7966025	6.0mm × 25mm	7966030	6.0mm × 30mm	7966035	6.0mm × 35mm	Part Number	(Diameter × Length)	 7975520	5.5mm × 20mm	 7975525	5.5mm × 25mm	 7975530	5.5mm × 30mm	 7975535	5.5mm × 35mm	 7976020	6.0mm × 20mm	 7976025	6.0mm × 25mm	 7976030	6.0mm × 30mm	 7976035	6.0mm × 35mm
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11I	a second screw having a seconds screw head and a	The '183 Accused Instrumentalities include a second screw having a seconds screw head and a seconds screw threaded portion, wherein the second screw entrance portion of the second																																				

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

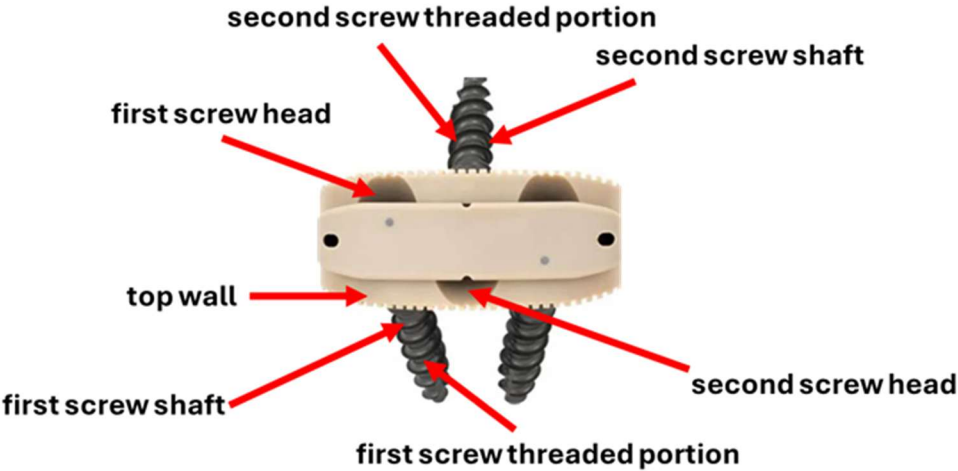
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
seconds screw threaded portion, wherein the second screw entrance portion of the second internal screw guide is sized large enough to receive at least part of the second screw head and wherein the second internal bore portion of the second internal screw guide is sized with a smaller diameter than the second screw entrance portion and is sized to receive the second screw shaft of the second screw; and	internal screw guide is sized large enough to receive at least part of the second screw head and wherein the second internal bore portion of the second internal screw guide is sized with a smaller diameter than the second screw entrance portion and is sized to receive the second screw shaft of the second screw. For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.” 

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11J	a screw locking bracket having a first end portion sized and	The '183 Accused Instrumentalities include a screw locking bracket having a first end portion sized and positioned to be inserted into the first slot, a second end portion sized and positioned																																													

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positioned to be inserted into the first slot, a second end portion sized and positioned to be inserted into the second slot and a central portion extending between the first end portion and the second end portion, wherein when the screw locking bracket is connected to the intervertebral cage with the first end portion in the first slot and the second end portion in the second slot, the central portion partially blocks the screw entrance portion and the second screw entrance portion so as to retain the first and second screws in the internal screw guide and the second internal screw guide while leaving at least a portion of each of the first and second screw heads at least partially exposed via gaps between the screw locking bracket and the intervertebral cage, and	to be inserted into the second slot and a central portion extending between the first end portion and the second end portion, wherein when the screw locking bracket is connected to the intervertebral cage with the first end portion in the first slot and the second end portion in the second slot, the central portion partially blocks the screw entrance portion and the second screw entrance portion so as to retain the first and second screws in the internal screw guide and the second internal screw guide while leaving at least a portion of each of the first and second screw heads at least partially exposed via gaps between the screw locking bracket and the intervertebral cage. The image contains two photographs of a beige, C-shaped medical device. The left photograph shows the device from a side perspective with a red arrow pointing to it from the label 'screw locking bracket'. The right photograph shows the device from a top-down perspective with three red arrows pointing to different parts: 'first end portion' on the left, 'central portion' in the middle, and 'second end portion' on the right.

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11K wherein the screw locking bracket has a curvature such that first and second distal ends of the first and second end portions are positioned downward with respect to the central portion when the screw	The screw locking bracket has a curvature such that first and second distal ends of the first and second end portions are positioned downward with respect to the central portion when the screw locking bracket is connected to the intervertebral cage..

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

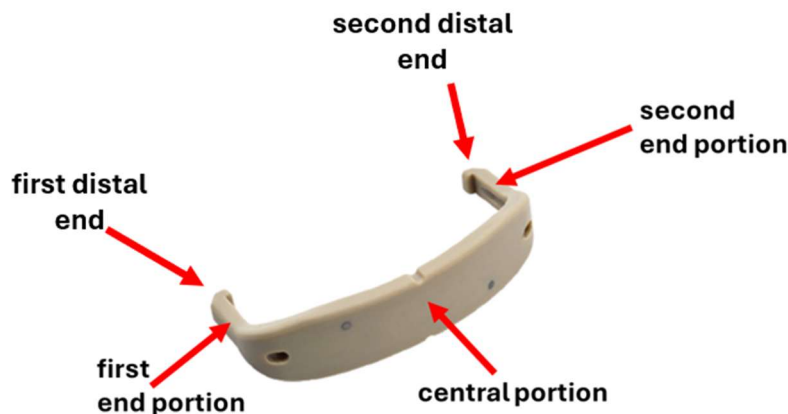
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
	locking bracket is connected to the intervertebral cage.	 <i>See also</i> Claim 1, Row 1J. <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 12	
12	The apparatus of claim 11, wherein the plurality of surface features on the side surface and the second side surface are	The '183 Accused Instrumentalities include the limitations of claim 11, as described above. The plurality of surface features on the side surface and the second side surface are patterned at locations next to the top surface.

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Infringement Claim Chart

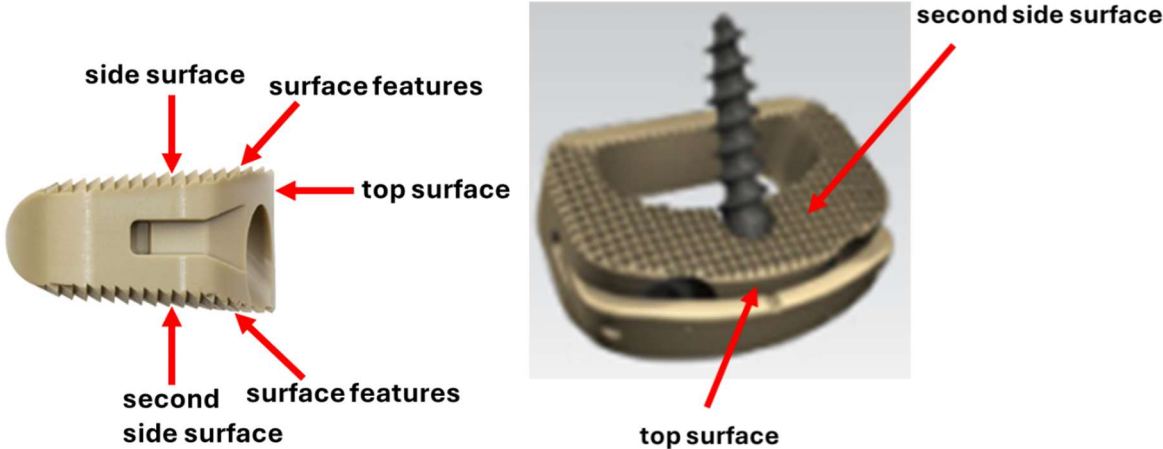
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
	patterned at locations next to the top surface.	 Exemplary Sources https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 13	
13	The apparatus of claim 11, and further comprising means for fusing superior and inferior	The '183 Accused Instrumentalities include the limitations of claim 11, as described above.

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Infringement Claim Chart

U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
vertebral bodies in conjunction with the intervertebral cage.	The '183 Accused Instrumentalities further include means for fusing superior and inferior vertebral bodies in conjunction with the intervertebral cage. For example, Medtronic promotional material states “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1.” means for fusing superior and inferior vertebral bodies in conjunction with the intervertebral cage <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525

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Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 14	
14	The apparatus of claim 11, wherein the intervertebral cage is sized and configured for use in a patient's lumbar spine, the apparatus further comprising means for fusing superior and inferior lumbar vertebral bodies in conjunction with the intervertebral cage.	The '183 Accused Instrumentalities include the limitations of claim 11, as described above. The intervertebral cage is sized and configured for use in a patient's lumbar spine. The '183 Accused Instrumentalities further include means for fusing superior and inferior lumbar vertebral bodies in conjunction with the intervertebral cage. For example, Medtronic promotional material states “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1.”

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

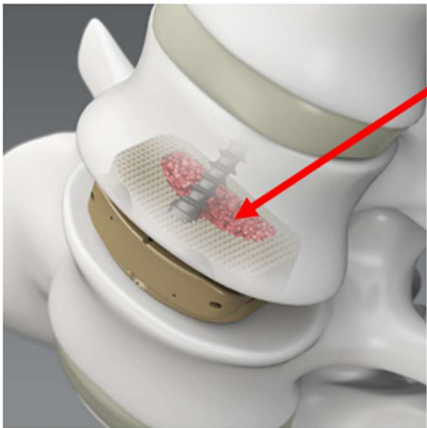
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		 means for fusing superior and inferior lumbar vertebral bodies in conjunction with the intervertebral cage <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 16	
16	The apparatus of claim 11, wherein the screw locking bracket comprises means to slightly deform the screw locking bracket to remove the	The '183 Accused Instrumentalities include the limitations of claim 11, as described above. The screw locking bracket includes means to slightly deform the screw locking bracket to remove the screw locking bracket from the intervertebral cage.

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Infringement Claim Chart

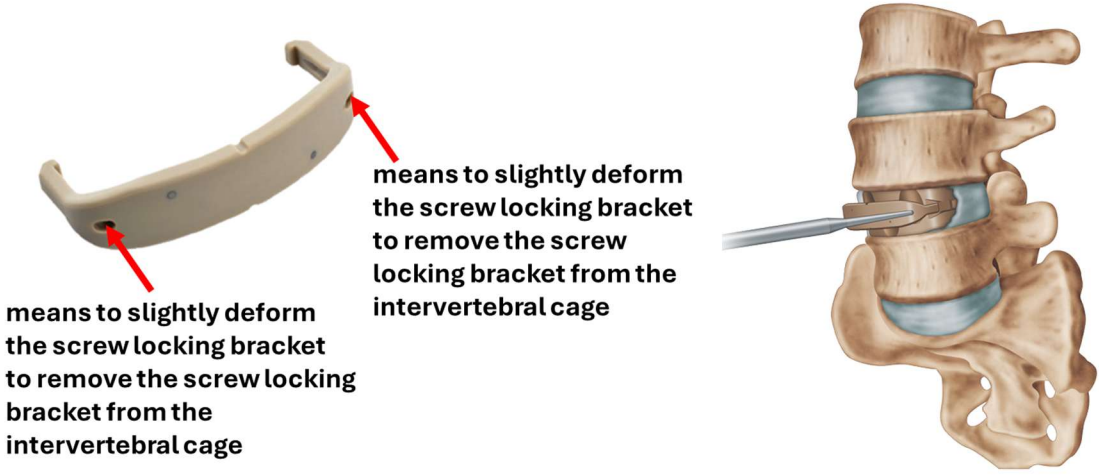
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
	screw locking bracket from the intervertebral cage.	For example, Medtronic promotional material for the Sovereign™ spinal system states “If it becomes necessary to remove the Interbody Spacer, remove the Coverplate using the Coverplate Remover. This is done by inserting the ball tip end of the instrument into the side hole in the Coverplate. Flex the arm out to loosen it from the Interbody Spacer and then pull back the Coverplate from the Interbody Spacer Construct.”  <u>Exemplary Sources</u> https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 17	
17	The apparatus of claim 16, wherein the means comprises a flexion portion of the screw locking bracket.	The '183 Accused Instrumentalities include the limitations of claim 16, as described above. The means comprises a flexion portion of the screw locking bracket.

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Infringement Claim Chart

U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		For example, Medtronic promotional material for the Sovereign™ spinal system states “If it becomes necessary to remove the Interbody Spacer, remove the Coverplate using the Coverplate Remover. This is done by inserting the ball tip end of the instrument into the side hole in the Coverplate. Flex the arm out to loosen it from the Interbody Spacer and then pull back the Coverplate from the Interbody Spacer Construct.”  flexion portion flexion portion <u>Exemplary Sources</u> https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 18	
18A	The apparatus of claim 11, wherein the screw locking bracket contacts both the first and second screw heads when the screw locking bracket is	The '183 Accused Instrumentalities include the limitations of claim 11, as described above. The screw locking bracket contacts both the first and second screw heads when the screw locking bracket is connected to the intervertebral cage.

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connect to the intervertebral cage and	<i>See also</i> Claim 1, Rows 1E and 1J. <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf

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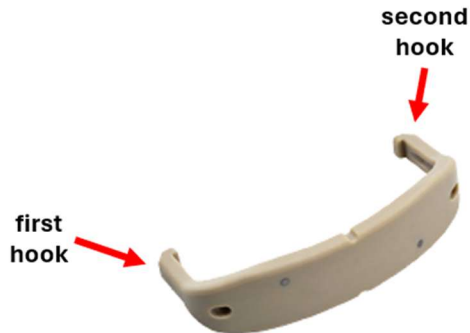
U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
18B	wherein the screw locking bracket comprises a first hook at the first end portion that is sized to fit in the first slot and a second hook at the second end portion that is sized to fit in the second slot.	The screw locking bracket comprises a first hook at the first end portion that is sized to fit in the first slot and a second hook at the second end portion that is sized to fit in the second slot.  <i>See also Claim 1, Rows 1E and 1J.</i> <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 19	
19A	A method of inserting a bi-directional fixating transvertebral (BDFT)	To the extent the preamble is limiting, the '183 Accused Instrumentalities include a method of inserting a bi-directional fixating transvertebral (BDFT) screw/cage apparatus between a first vertebral body and a second vertebral body. The method includes inserting an intervertebral

EXHIBIT G1 - U.S. PATENT 10,603,183
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screw/cage apparatus between a first vertebral body and a second vertebral body, the method including: inserting an intervertebral cage into a midline of a disc space between the first vertebral body and the second vertebral body until the intervertebral cage is one of flush and countersunk relative to the first vertebral body and the second vertebral body,	cage into a midline of a disc space between the first vertebral body and the second vertebral body until the intervertebral cage is one of flush and countersunk relative to the first vertebral body and the second vertebral body. For example, Medtronic promotional material for the Sovereign™ spinal system instructs users as follows: “Once the Interbody Spacer is attached impact the Interbody Spacer into the disc space (Figures 6 and 7).” <u>Exemplary Sources</u> https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf

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19B wherein the intervertebral cage includes: a top wall, a bottom wall, and sidewalls defining a fusion material space capable of receiving bone filling for the biological bone fusion;	The intervertebral cage includes a top wall, a bottom wall, and sidewalls defining a fusion material space capable of receiving bone filling for the biological bone fusion. For example, Medtronic promotional material states “The Sovereign™ spinal system is indicated for use with autogenous bone and/or allograft bone graft comprised of cancellous and/or corticocancellous bone graft, and/or demineralized allograft bone with bone marrow aspirate in patients with degenerative disc disease (DDD) at one or two contiguous levels from L2 to S1.” <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525

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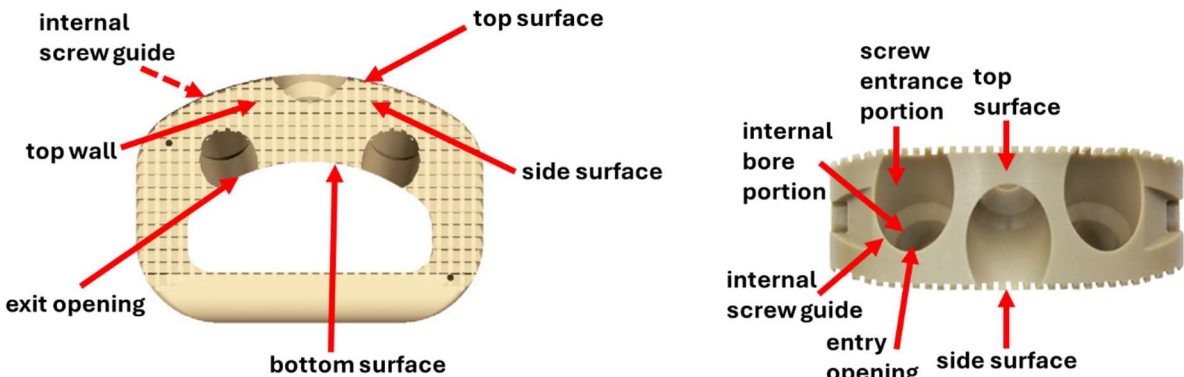
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	https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
19C an internal screw guide having a screw entrance portion and an internal bore portion, wherein the screw entrance portion is larger than and coaxial with the internal bore and is formed at least partially in a top surface of the top wall as viewed from a top of the intervertebral cage, wherein the internal bore portion has an entry opening formed only in a top surface of the top wall as viewed from the top of the intervertebral cage and has an exit opening formed at least partially in a bottom surface of the top wall and at least partially in a side surface of the top wall;	The intervertebral cage includes an internal screw guide having a screw entrance portion and an internal bore portion, wherein the screw entrance portion is larger than and coaxial with the internal bore and is formed at least partially in a top surface of the top wall as viewed from a top of the intervertebral cage, wherein the internal bore portion has an entry opening formed only in a top surface of the top wall as viewed from the top of the intervertebral cage and has an exit opening formed at least partially in a bottom surface of the top wall and at least partially in a side surface of the top wall.  <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf

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U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1,2}
		https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/ https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
19D	a second internal screw guide having a second screw entrance portion and a second internal bore portion, wherein the second screw entrance portion is larger than and coaxial with the second internal bore and is formed at least partially in the top surface of the top wall as viewed from the top, wherein the second internal bore portion has a second entry opening formed only in the top surface of the top wall as viewed from the top of the intervertebral cage and has a second exit opening formed at least partially in the bottom surface of the top wall and at least partially in a second side surface of the top wall, and wherein the internal	The intervertebral cage includes a second internal screw guide having a second screw entrance portion and a second internal bore portion, wherein the second screw entrance portion is larger than and coaxial with the second internal bore and is formed at least partially in the top surface of the top wall as viewed from the top, wherein the second internal bore portion has a second entry opening formed only in the top surface of the top wall as viewed from the top of the intervertebral cage and has a second exit opening formed at least partially in the bottom surface of the top wall and at least partially in a second side surface of the top wall, and wherein the internal screw guide and the second internal screw guide are angled to orient a first screw member and a second member bi-directionally in opposite directions.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

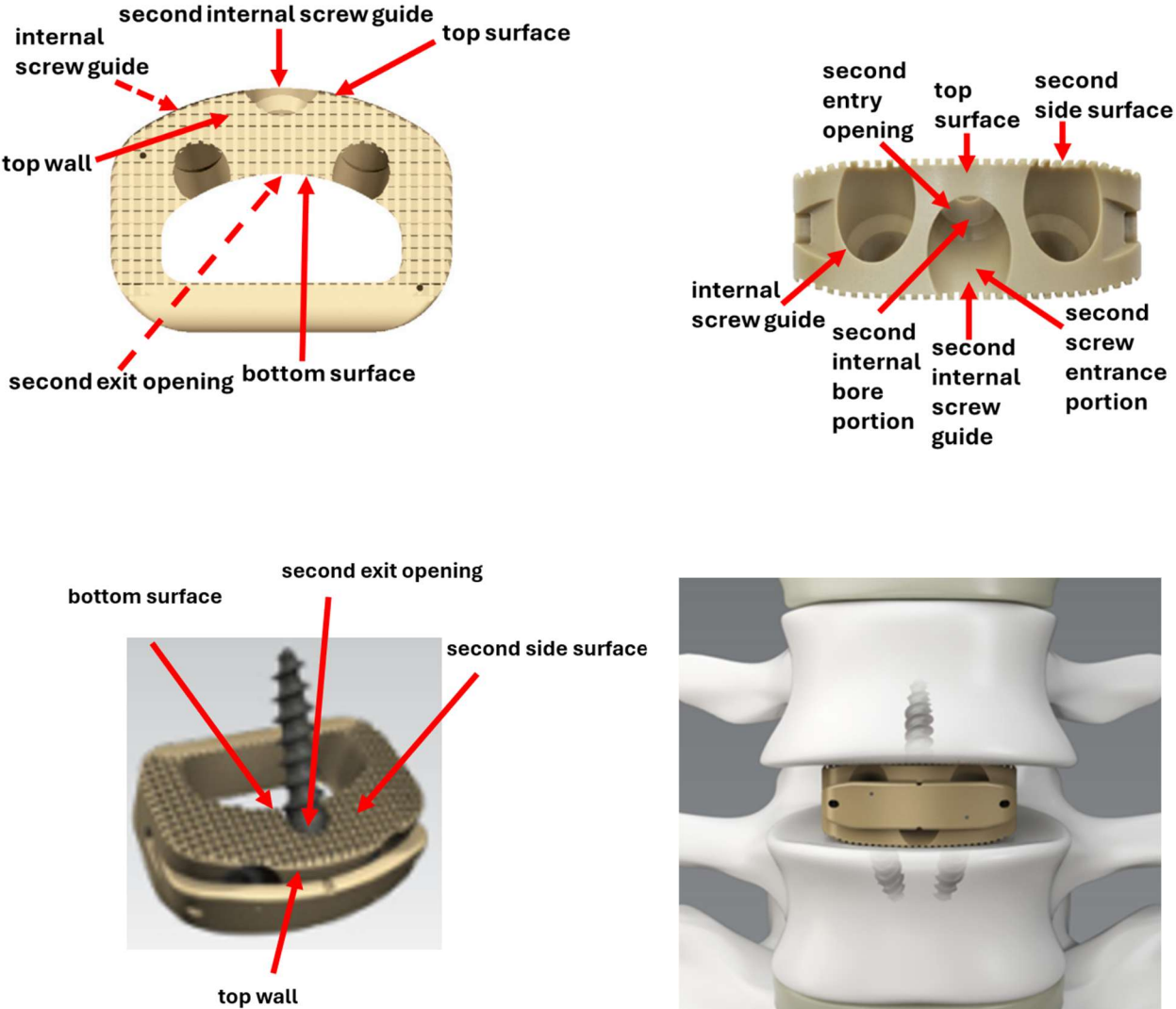
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
screw guide and the second internal screw guide are angled to orient a first screw member and a second member bi-directionally in opposite directions;	 The diagrams illustrate the Medtronic infringing activity. The top left diagram shows a top view of a plate with labels: internal screw guide, second internal screw guide, top surface, top wall, second exit opening, bottom surface. The top right diagram shows a side view of a plate with labels: second entry opening, top surface, second side surface, internal screw guide, second internal bore portion, second internal screw guide, second screw entrance portion. The bottom left diagram shows a bottom view of a plate with a screw, labels: bottom surface, second exit opening, second side surface, top wall. The bottom right diagram shows an in vivo view of the plate on a vertebra with screws.

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	<u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
19E a first slot extending at least partially into a first sidewall of the sidewalls; a second slot extending at least partially into a second sidewall of the sidewalls, wherein the second slot is positioned opposite of the first slot; wherein the first slot is positioned along a first centerline axis that bisects the first sidewall and is positioned nearer a top of the intervertebral cage than a bottom of the intervertebral cage, wherein the second slot is positioned along a second centerline axis that bisects the	The intervertebral cage includes a first slot extending at least partially into a first sidewall of the sidewalls; a second slot extending at least partially into a second sidewall of the sidewalls, wherein the second slot is positioned opposite of the first slot; wherein the first slot is positioned along a first centerline axis that bisects the first sidewall and is positioned nearer a top of the intervertebral cage than a bottom of the intervertebral cage, wherein the second slot is positioned along a second centerline axis that bisects the second sidewall and is positioned nearer the top of the intervertebral cage than the bottom of the intervertebral cage.

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second sidewall and is positioned nearer the top of the intervertebral cage than the bottom of the intervertebral cage,	 first sidewall first slot second slot second sidewall <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
19F wherein the side surface and the second side surface of the top wall are patterned with a plurality of surface features to create rough side surfaces, wherein at least some of the plurality of surface features are	The side surface and the second side surface of the top wall are patterned with a plurality of surface features to create rough side surfaces, wherein at least some of the plurality of surface features are positioned on the side surface between the top wall and the exit opening.

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positioned on the side surface between the top wall and the exit opening, and	<u>Exemplary Sources</u> https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html
19G wherein the top wall, the bottom wall, and the sidewalls are integrally formed; and	The top wall, the bottom wall, and the sidewalls are integrally formed.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

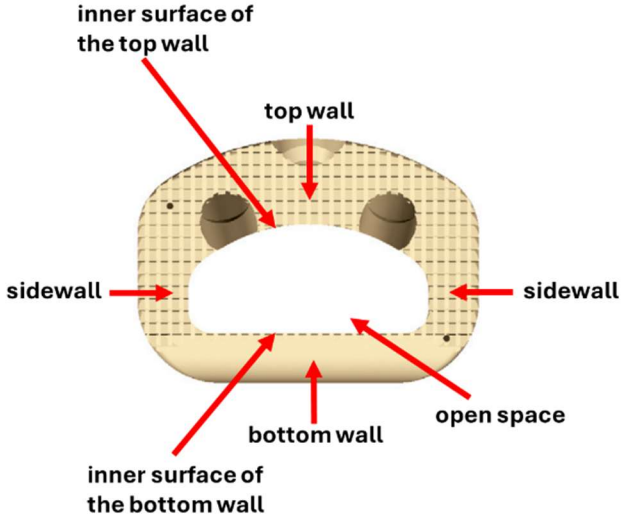
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
	 The diagram shows a cross-section of an intervertebral cage. It is a rectangular structure with rounded corners and a central white 'open space'. The walls are labeled: 'top wall' at the top, 'bottom wall' at the bottom, and 'sidewall' on the left and right sides. Red arrows point to the 'inner surface of the top wall' and 'inner surface of the bottom wall'. Two screws are shown inserted into the top wall. The entire cage is depicted with a grid pattern, suggesting a porous or mesh-like structure. <u>Exemplary Sources</u> https://www.medtronic.com/content/dam/medtronic-wide/public/united-states/customer-support-services/reimbursement/sovereign-spinal-system-billing-and-coding-guide.pdf https://www.catablog.com/post/medtronic-sofamor-danek-sovereign-ibf-w-screws-lumbar-t-lumbar-screw-catalog-7975525 https://www.medtronic.com/me-en/healthcare-professionals/therapies-procedures/spinal-orthopaedic/olif/products/olif51.html https://pmc.ncbi.nlm.nih.gov/articles/PMC7870318/
19H	inserting a first screw into the internal screw guide of the intervertebral cage; The method includes inserting a first screw into the internal screw guide of the intervertebral cage.

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
	For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.” This promotional material instructs the user as follows: “Once the pilot hole is made, there is an option to insert a 5.5mm or 6.0mm diameter Variable Angle or Fixed Angle screw,” and “Screw insertion can be accomplished with one of the different screw driver options in the set: U-Joint, Flexible Shaft, or Straight. Repeat the above mentioned steps to insert the remaining screws (Figure 14).”

EXHIBIT G1 - U.S. PATENT 10,603,183
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U.S. Patent 10,603,183		Medtronic Infringing Activity ^{1, 2}																																													
		Screws 20mm, 25mm, 30mm and 35mm standard lengths. Available in Variable Angle and Fixed Angle designs.  Variable Angle Screws <table><thead><tr><th>Part Number</th><th>(Diameter × Length)</th></tr></thead><tbody><tr><td>7965520</td><td>5.5mm × 20mm</td></tr><tr><td>7965525</td><td>5.5mm × 25mm</td></tr><tr><td>7965530</td><td>5.5mm × 30mm</td></tr><tr><td>7965535</td><td>5.5mm × 35mm</td></tr><tr><td>7966020</td><td>6.0mm × 20mm</td></tr><tr><td>7966025</td><td>6.0mm × 25mm</td></tr><tr><td>7966030</td><td>6.0mm × 30mm</td></tr><tr><td>7966035</td><td>6.0mm × 35mm</td></tr></tbody></table>  Fixed Angle Screws <table><thead><tr><th></th><th>Part Number</th><th>(Diameter × Length)</th></tr></thead><tbody><tr><td>●</td><td>7975520</td><td>5.5mm × 20mm</td></tr><tr><td>●</td><td>7975525</td><td>5.5mm × 25mm</td></tr><tr><td>●</td><td>7975530</td><td>5.5mm × 30mm</td></tr><tr><td>●</td><td>7975535</td><td>5.5mm × 35mm</td></tr><tr><td>●</td><td>7976020</td><td>6.0mm × 20mm</td></tr><tr><td>●</td><td>7976025</td><td>6.0mm × 25mm</td></tr><tr><td>●</td><td>7976030</td><td>6.0mm × 30mm</td></tr><tr><td>●</td><td>7976035</td><td>6.0mm × 35mm</td></tr></tbody></table> Exemplary Sources https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf	Part Number	(Diameter × Length)	7965520	5.5mm × 20mm	7965525	5.5mm × 25mm	7965530	5.5mm × 30mm	7965535	5.5mm × 35mm	7966020	6.0mm × 20mm	7966025	6.0mm × 25mm	7966030	6.0mm × 30mm	7966035	6.0mm × 35mm		Part Number	(Diameter × Length)	●	7975520	5.5mm × 20mm	●	7975525	5.5mm × 25mm	●	7975530	5.5mm × 30mm	●	7975535	5.5mm × 35mm	●	7976020	6.0mm × 20mm	●	7976025	6.0mm × 25mm	●	7976030	6.0mm × 30mm	●	7976035	6.0mm × 35mm
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19I	inserting a second screw into the second internal screw guide of the intervertebral cage;	The method includes inserting a second screw into the second internal screw guide of the intervertebral cage.																																													

EXHIBIT G1 - U.S. PATENT 10,603,183
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19J	screwing the first screw into the first vertebral body such that at least part of the first screw head is positioned in the screw entrance portion of the internal screw guide, at least part of the first screw shaft of the first screw is positioned in the internal bore, and at least part of the first screw threaded portion is positioned in the first vertebral body.																																					

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U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
first screw shaft of the first screw is positioned in the internal bore, and at least part of the first screw threaded portion is positioned in the first vertebral body;	For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.” This promotional material instructs the user as follows: “Once the pilot hole is made, there is an option to insert a 5.5mm or 6.0mm diameter Variable Angle or Fixed Angle screw,” and “Screw insertion can be accomplished with one of the different screw driver options in the set: U-Joint, Flexible Shaft, or Straight. Repeat the above mentioned steps to insert the remaining screws (Figure 14).” <i>See also Claim 1, Rows 1C and H.</i>

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Infringement Claim Chart

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		<u>Exemplary Sources</u> https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
19K	screwing the second screw into the second vertebral body such that at least part of the second screw head is positioned in the second screw entrance portion of the second internal screw guide, at least part of the second screw shaft of the second screw is positioned in the second internal bore, and at least part of the second screw threaded portion is positioned in the second vertebral body; and	The method includes screwing the second screw into the second vertebral body such that at least part of the second screw head is positioned in the second screw entrance portion of the second internal screw guide, at least part of the second screw shaft of the second screw is positioned in the second internal bore, and at least part of the second screw threaded portion is positioned in the second vertebral body. For example, Medtronic promotional material for the Sovereign™ spinal system states “The screws used with this device are manufactured from titanium alloy.” This material further states “These titanium cancellous screws are provided in both a variable angle and fixed angle option,” and “If the physician chooses to use less than 3 or none of the provided screws, additional supplemental fixation in the lumbar spine must be used to augment stability.” This promotional material instructs the user as follows: “Once the pilot hole is made, there is an option to insert a 5.5mm or 6.0mm diameter Variable Angle or Fixed Angle screw,” and “Screw insertion can be accomplished with one of the different screw driver options in the set: U-Joint, Flexible Shaft, or Straight. Repeat the above mentioned steps to insert the remaining screws (Figure 14).”

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	<i>See also Claim 1, Rows 1D and I.</i> <u>Exemplary Sources</u> https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
19L locking the first screw and the second screw in the intervertebral cage using a screw locking bracket coupled to the intervertebral cage by positioning a first end portion of the screw locking bracket in the	The method includes locking the first screw and the second screw in the intervertebral cage using a screw locking bracket coupled to the intervertebral cage by positioning a first end portion of the screw locking bracket in the first slot, a second end portion of the screw locking bracket in the second slot and a central portion of the screw locking bracket extending between the first end portion and the second end portion across at least part of the top surface of the top wall such that the central portion partially blocks the screw entrance portion and the second screw entrance portion so as to retain the first and second screws in the internal screw guide

EXHIBIT G1 - U.S. PATENT 10,603,183
Infringement Claim Chart

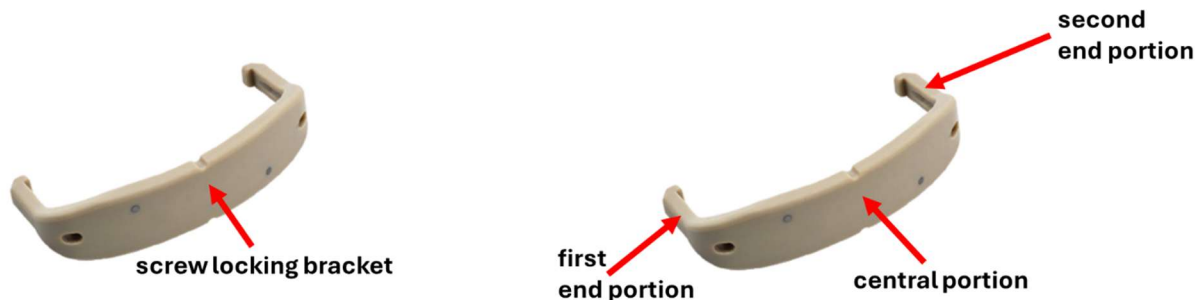
U.S. Patent 10,603,183	Medtronic Infringing Activity ^{1,2}
first slot, a second end portion of the screw locking bracket in the second slot and a central portion of the screw locking bracket extending between the first end portion and the second end portion across at least part of the top surface of the top wall such that the central portion partially blocks the screw entrance portion and the second screw entrance portion so as to retain the first and second screws in the internal screw guide and the second internal screw guide while leaving at least a portion of each of the first and second screw heads at least partially visible through gaps between the screw locking bracket and the intervertebral cage.	and the second internal screw guide while leaving at least a portion of each of the first and second screw heads at least partially visible through gaps between the screw locking bracket and the intervertebral cage. For example, Medtronic promotional material for the Sovereign™ spinal system instructs the user to “Attach the Coverplate by aligning it to the grooves in the side of the Interbody Spacer (Figure 15). Push down on the Coverplate until it snaps into place (Figure 16). Both sides should snap into place.”  The image contains two photographs of a beige, C-shaped medical device. The left photograph shows the device from a side perspective with a red arrow pointing to it from the label 'screw locking bracket'. The right photograph shows the device from a top-down perspective with three red arrows pointing to different parts: 'first end portion' on the left, 'central portion' in the middle, and 'second end portion' on the right.

EXHIBIT G1 - U.S. PATENT 10,603,183
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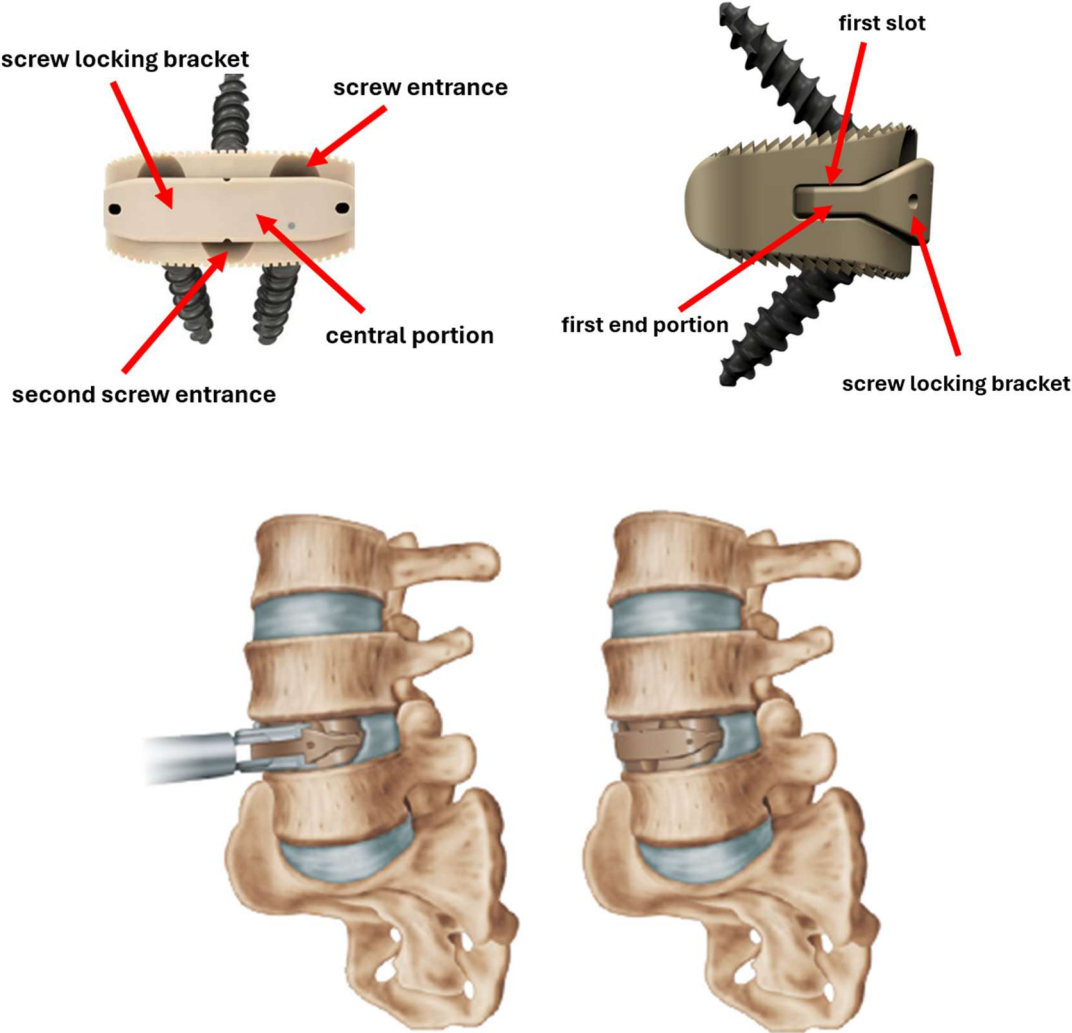
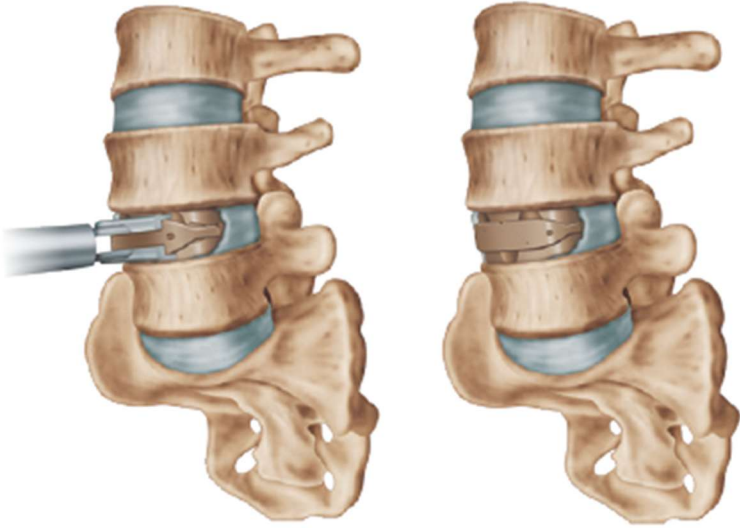
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	 The diagrams illustrate the components and application of a screw locking bracket. The top left diagram shows a perspective view of the bracket with labels: 'screw locking bracket' (pointing to the top and bottom horizontal bars), 'screw entrance' (pointing to the top bar), 'central portion' (pointing to the middle section), and 'second screw entrance' (pointing to the bottom bar). The top right diagram shows a side view of the bracket with labels: 'first slot' (pointing to a slot on the top bar), 'first end portion' (pointing to the left end), and 'screw locking bracket' (pointing to the bottom bar). The bottom section contains two anatomical illustrations of a vertebral column. The left illustration shows a surgical approach with a tool inserting a bracket into the intervertebral space. The right illustration shows the final assembly with the bracket secured between two vertebrae.

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		<u>Exemplary Sources</u> https://neurospineproductreview.com/storage/products/pdfs/sovereign-surgical-technique.pdf
Row	Claim 20	
20	The method of claim 19, and further comprising press fitting the screw locking bracket to the intervertebral cage.	The '183 Accused Instrumentalities include the method of claim 24, as described above. The method further includes press fitting the screw locking bracket to the intervertebral cage. For example, Medtronic promotional material for the Sovereign™ spinal system instructs the user to “Attach the Coverplate by aligning it to the grooves in the side of the Interbody Spacer (Figure 15). Push down on the Coverplate until it snaps into place (Figure 16). Both sides should snap into place.”

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