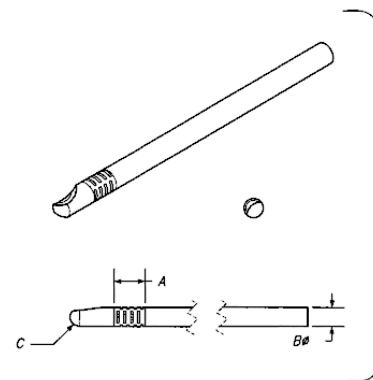


Document No. US9474541 B2	Published As US20140276831 A1	App. No. 13/798125	Doc Status ACTIVE
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Surgical devices

PScore: 11	25 Cite	94 Tech	0 Legal
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An endoscopic surgical instrument for removing tissue or bone, the instrument comprising (1) a generally tubular component (2) a cutting device which is housed in the distal end member and part of which protrudes beyond the window in the distal member, and (3) a means for operating the cutting device. The tubular component comprises a distal end member containing a cutting device, a proximal member, and between the distal member and the proximal member a hollow, generally tubular intermediate member which deforms elastically when the angle between the distal member family proximal member is changed. The intermediate member can for example be composed of a nickel titanium alloy, and/or can be slotted, and/or can be in the form of an accordion, and/or be in the form of a coil.



Priority 2013-03-13	Filed 2013-03-13	Granted 2016-10-25	Est. Exp. 2033-11-12
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Assignee Current N/A **Assignee Original** N/A

Inventor(s) Zider, John R.; Zider, Robert B. **Agent** T H P RICHARDSON

Prosecution Statistics

No. O/As	3	Claim Sets	5
No. RCEs	1	FW Docs.	76
Pendency	3.62 yrs.	Len. Spec.	11 pgs.
CoC	No	Term. Disc.	No
Restriction	No	Term Ext.	244 days

Family Statistics

Apps. Filed	1
Apps. Active	0
Apps. Abandoned	0
Grants	1
Grants Active	1

Document Statistics

Total Words	5204 words
Len. Claim 1	224 words
No. Figures	5 pgs.
Rem. Annuities	\$12600
Next Payment	2020-04-25

Claim 1 No. Claims: 18 Length: 224 words

An endoscopic surgical instrument for removing tissue or bone, the instrument comprising (A) a generally tubular component which comprises (1) a hollow, generally tubular distal end member which (a) has a first distal axis, (b) is rigid, and (c) comprises a window which exposes a substantial part of the interior of the distal end member, (2) a hollow, generally tubular proximal member which (a) is rigid, and (b) comprises a first proximal section which is adjacent to the distal end member and which has a first proximal axis, and (3) between the distal end member and the proximal member, a hollow, generally tubular intermediate member which (i) connects the distal end member and the proximal member, (ii) has a first configuration having an axis (ii) deforms elastically from the first configuration to a second configuration when the distal end member is pressed against a surface, thus changing the angle between the first distal axis and the first proximal axis, and (iii) returns to the first configuration when the distal end member is no longer pressed against a surface; (B) a cutting device which is housed in the distal end member and part of which protrudes beyond the window in the distal member, and (C) a shaft which is attached to the cutting device and which extends through the intermediate member and the proximal member.



Score Details

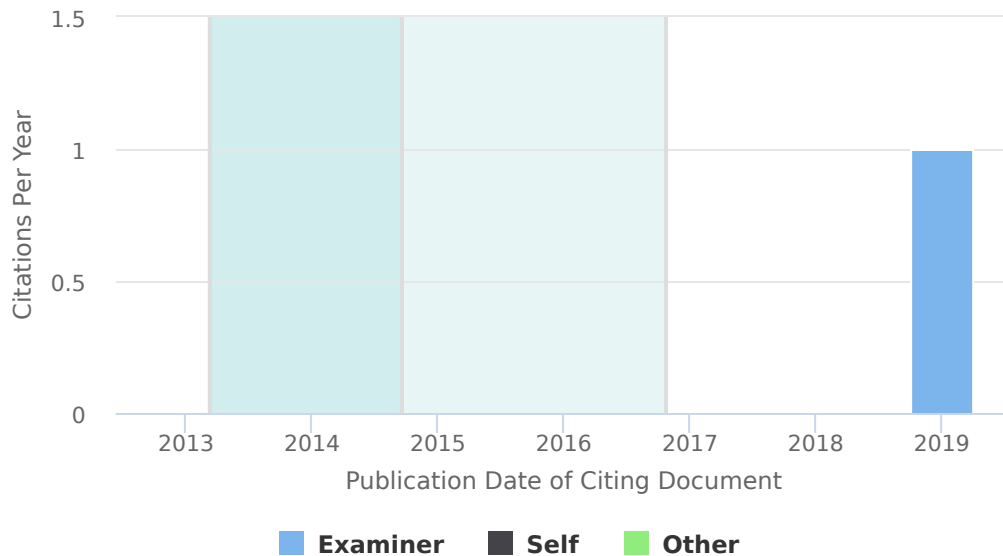
<p>11 Patent Score</p>	<p>25 Citation Score</p>	<p>Remaining Life: 14.48 yrs.</p>
	<p>0 Legal Score</p>	<p>Number Claims: 18</p>
	<p>94 Tech Score</p>	<p>Forward Citations: 1</p>
		<p>Family Size: 1</p>
		<p>Remaining Maint: US \$12600</p>

Citation Analysis

<p>25 Citation Impact Score</p>	<p>1 Forward Citations</p>	<p>0 App Citations</p>	<p>1 Patent Citations</p>
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Top Citing Companies

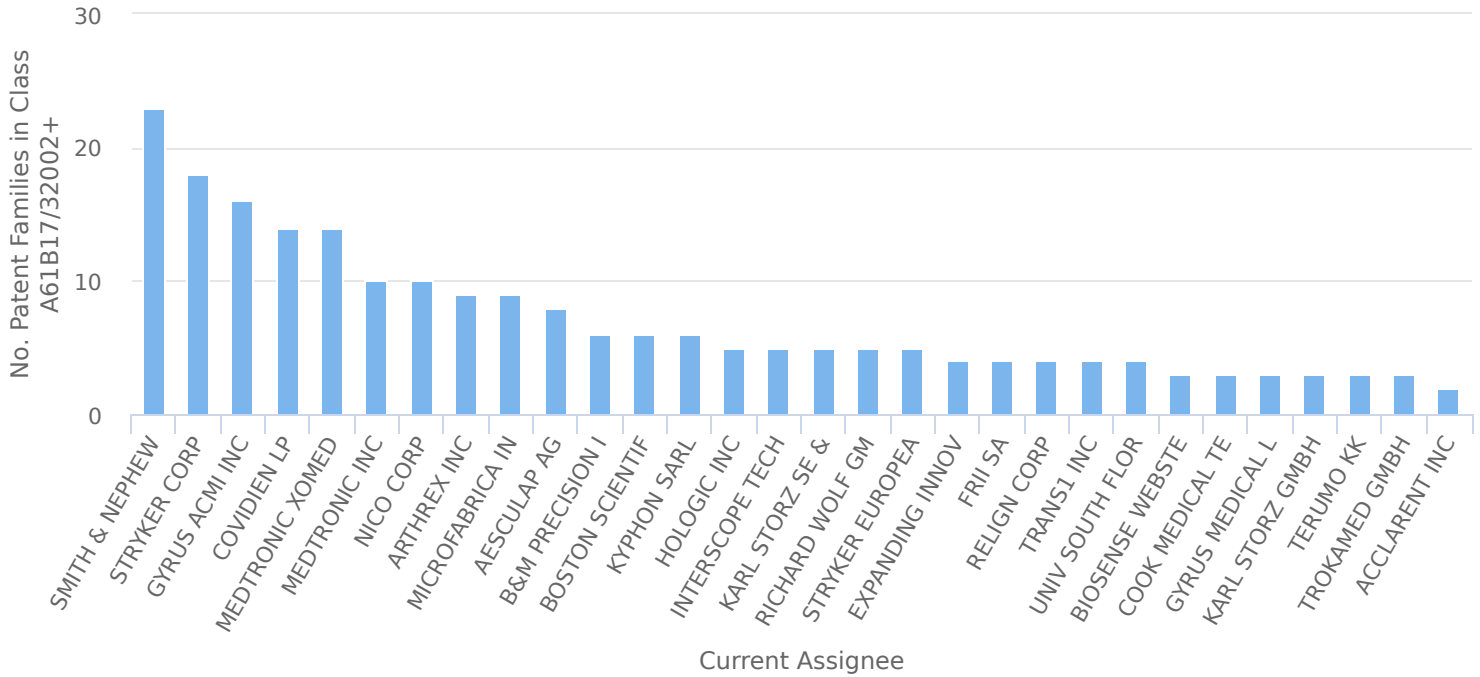
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Patent Owners With Similar Patents

Active Companies with Global Patent Families Classified Similar to US9474541 B2
With priority date in last 20 years listed in CPC class A61B17/32002 (and children classes)



Age in Class

Relative Age of US9474541 B2 Compared to Patents in Same CPC Class
Chart presents number of global patent families in CPC class A61B17/32002+

