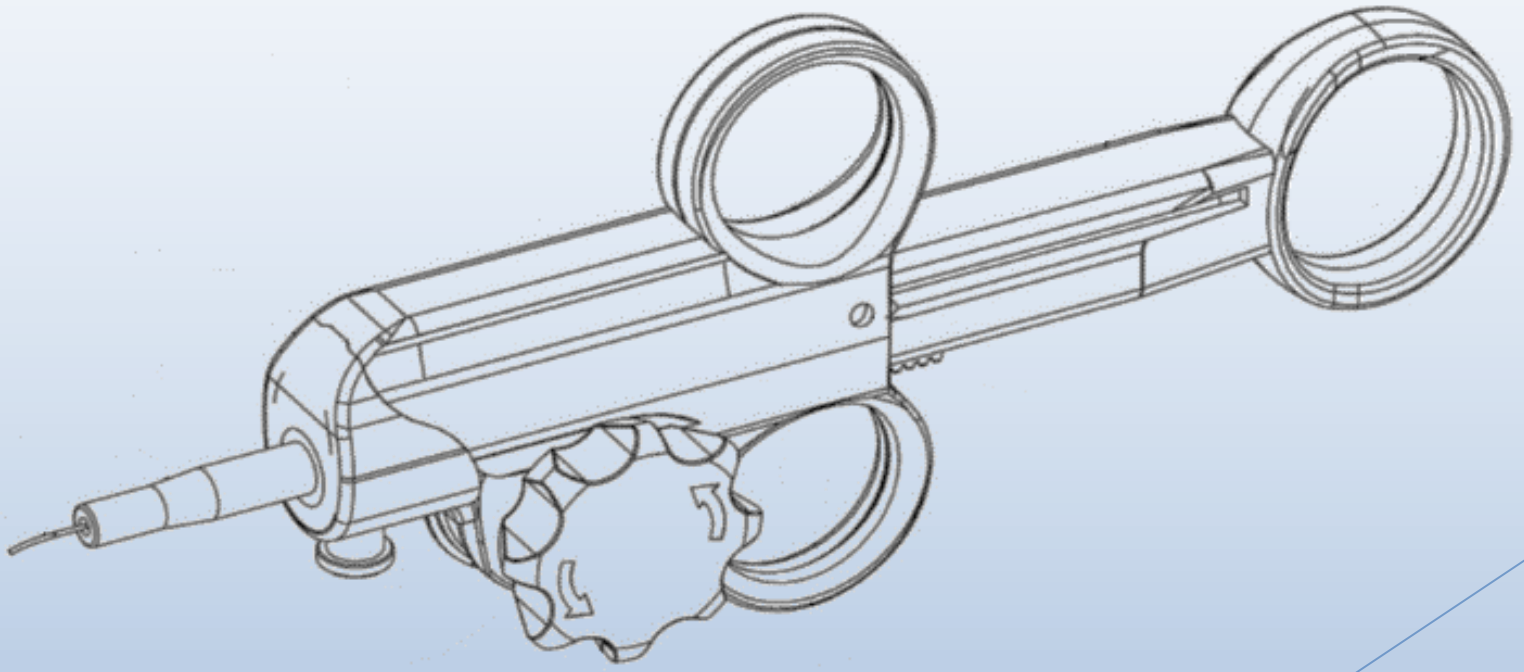
The new technology of the Bandligator

For the treatment of esophageal varices



Band ligatior - general:

MICRO-TECH ENDOSCOPY

SmartBand® Multi-Band Ligation System

COOK® MEDICAL

In essence, a ligator is a spool on which the wire is reeled manually (no click-sound) therefore a number of rubber bands will be wasted during the surgical procedure.

https://www.micro-tech-medical.com

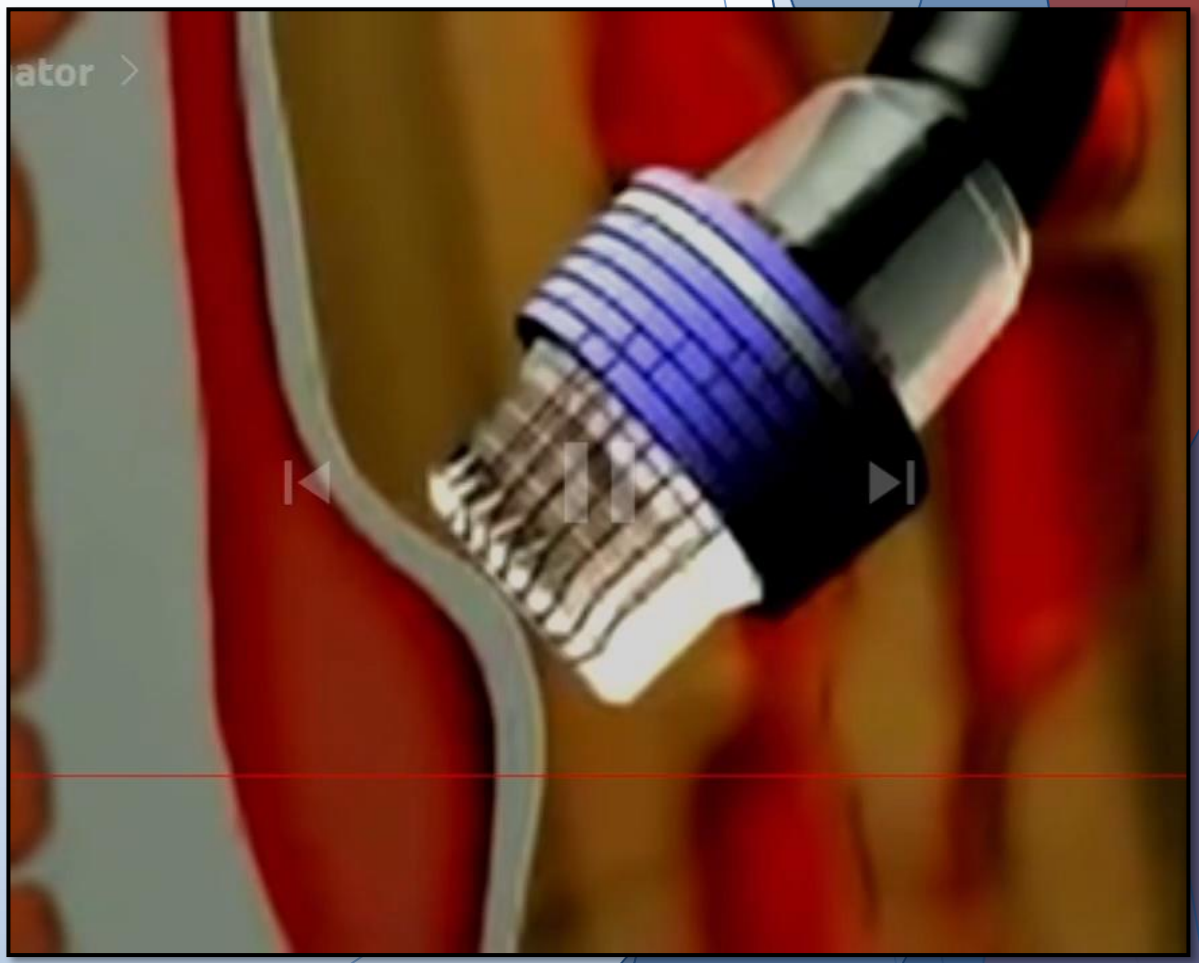
https://www.steris.com

https://www.cookmedical.com

Current rubber band ligatores

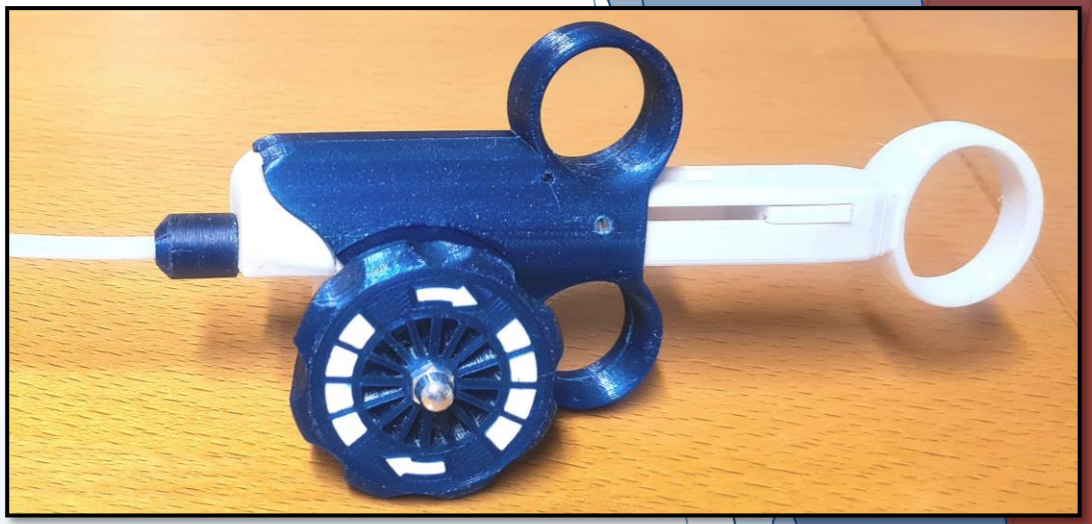
https://www.bostonscientific.com

The Super 7 uses the same principle, with a click sound during application to ensure that only one rubber band is applied.



https://www.youtube.com/watch?v=a2KvOyDFQi8

Advantages of the new technology of the Bandligator



- Ensuring that **only one** rubber band is applicable on the affected spot using a very focused and safe approach each trigger.
- **Automatic** recoil wire winder.
- **Compatible** with different sizes of ligation units.
- **Easy**, **safe** and **user friendly** device.

Advantages of the new technology of the Bandligator

- The new technology of the Bandligator is based on the pull and push principle, so no additional fastening is required.
- The new technology of the Bandligator is suitable for different endo-scopes thanks to the detachable accessories.
- The new technology of the Distance adapter provides the possibility to anyone in the endoscope team to control the release of the rubber rings.

Functional Similarity

Only one rubber band is applicable on the affected spot using a very focused and safe approach each trigger.

https://youtu.be/Z5BPEYrxrFw

Mounting

Almost all known rubber band ligatores have the following drawbacks:

- They need an extra and special attachment for mounting.
- They are not suitable for different endoscopes.
- The handles for them are rotated manually, which create a negative reverse force that destabilizes the device.

https://youtu.be/Z5BPEYrxrFw

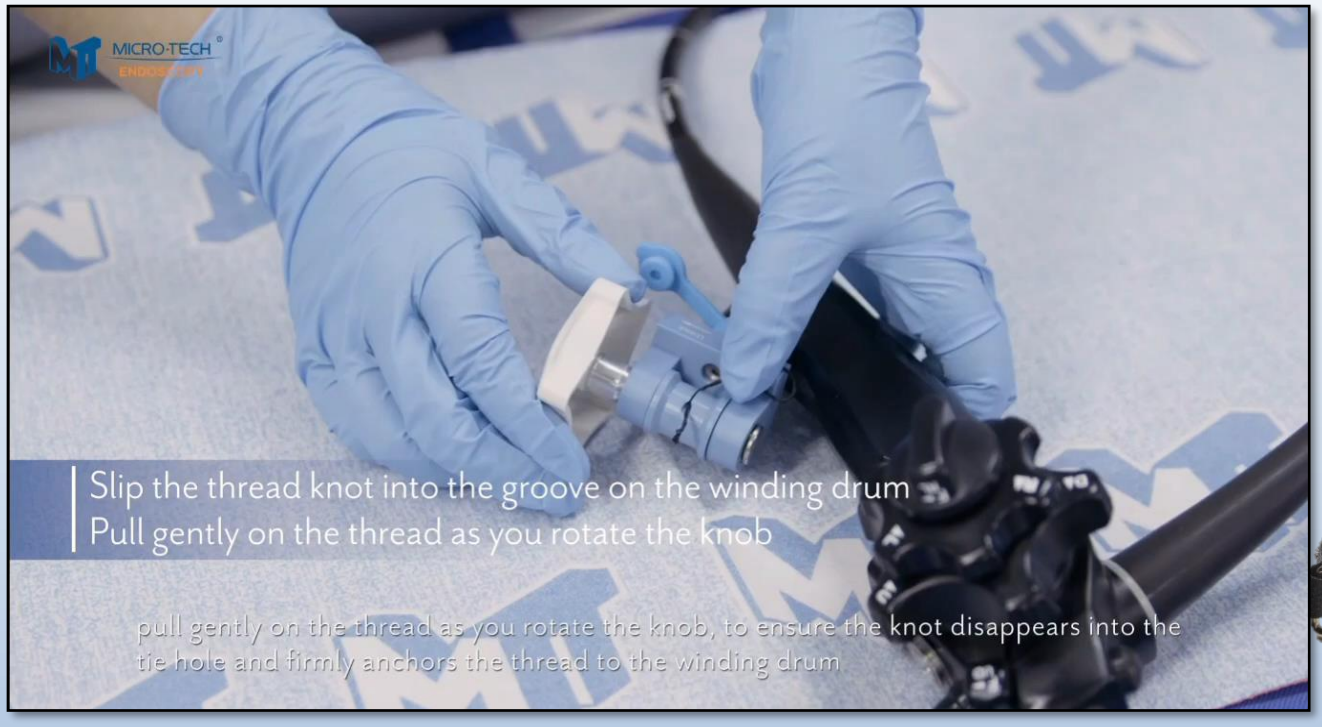
Mounting

The distance adapter offers these advantages:

- The endoscopist can fully focus on operating the endoscope.
- This reduces stress for the entire endoscopy team.
- All members of the team have the possibility to control the release of the rubber rings.
- This provides the endoscopist with more freedom of movement during procedures.

Recoil wire winder.

- All the currently known rubber band ligatores, are attaching the rubber rings cap **MANUALLY** towards the end of the hose.



https://youtu.be/qCVu8afgO8c

Recoil wire winder.

MICRO-TECH ENDOSCOPY

SmartBand® Multi-Band Ligation System

- All the currently known rubber band ligatores, are attaching the rubber rings cap **MANUALLY** towards the end of the hose.
- Putting too much tension on the deployment cord can cause premature band deployment.

https://youtu.be/nfMX8SQmTuY

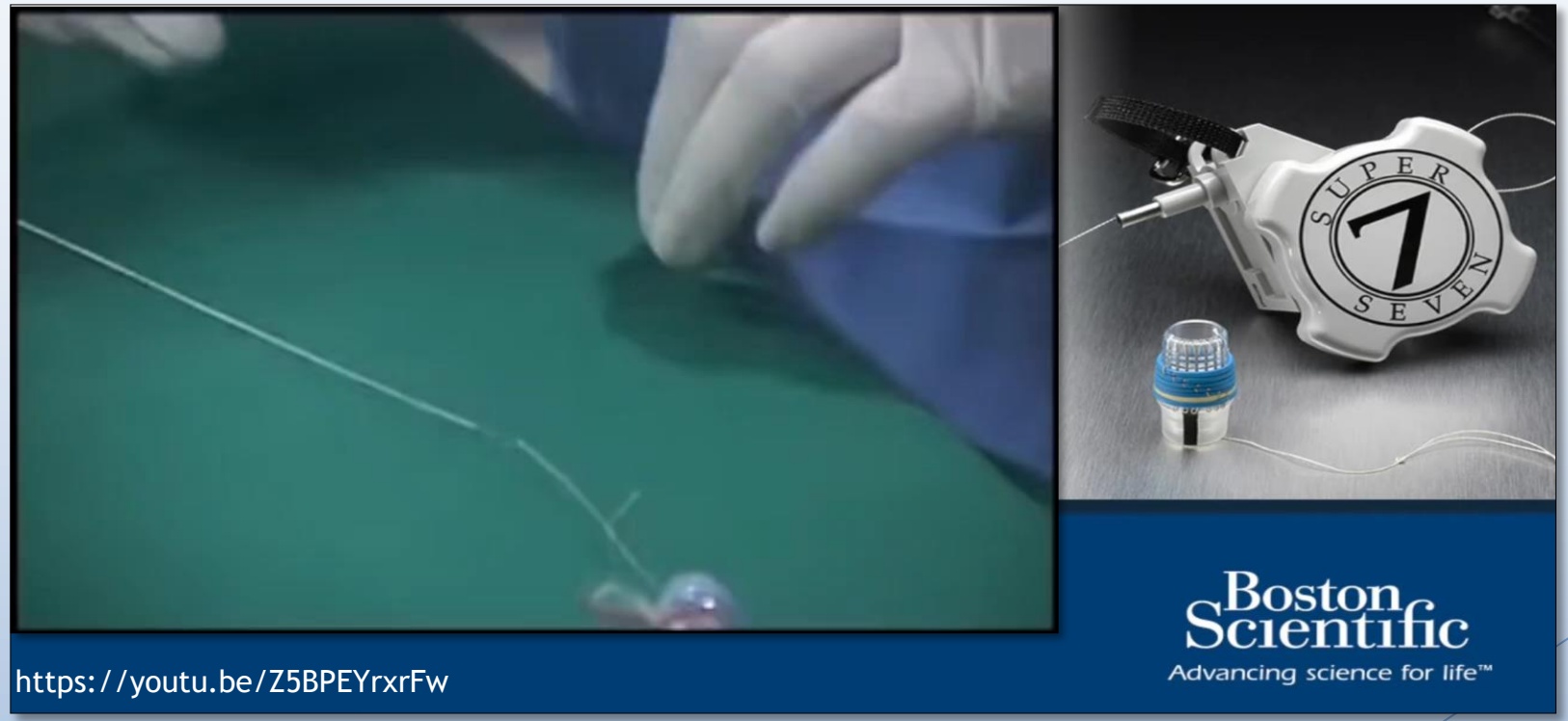
Recoil wire winder.

MICRO-TECH ENDOSCOPY

SmartBand® Multi-Band Ligation System

Boston Scientific

- All the currently known rubber band ligatores, are attaching the rubber rings cap **MANUALLY** towards the end of the hose.
- Putting too much tension on the deployment cord can cause premature band deployment.



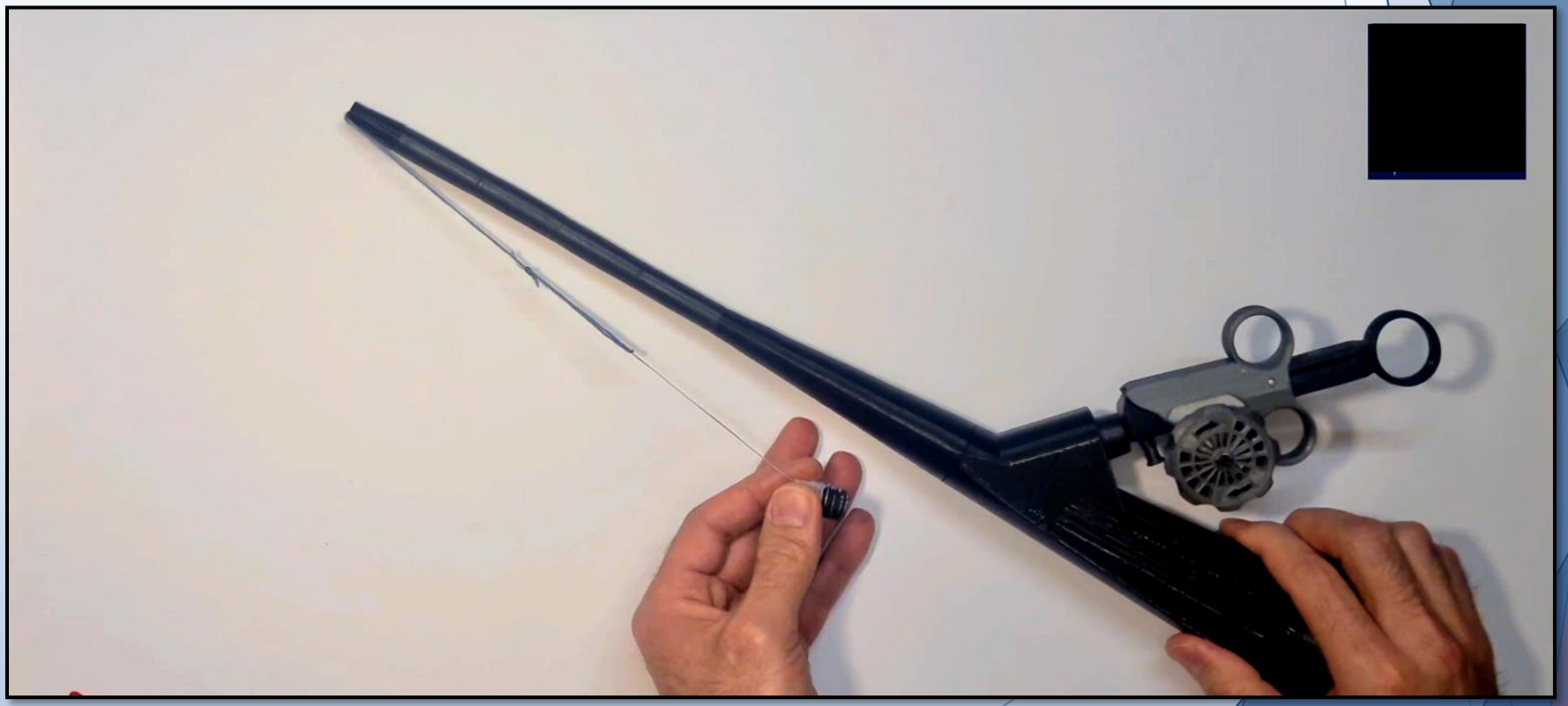
https://youtu.be/Z5BPEYrxrFw

https://www.bostonscientific.com

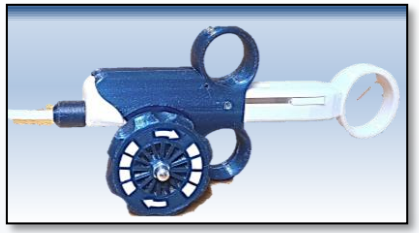
Recoil wire winder.

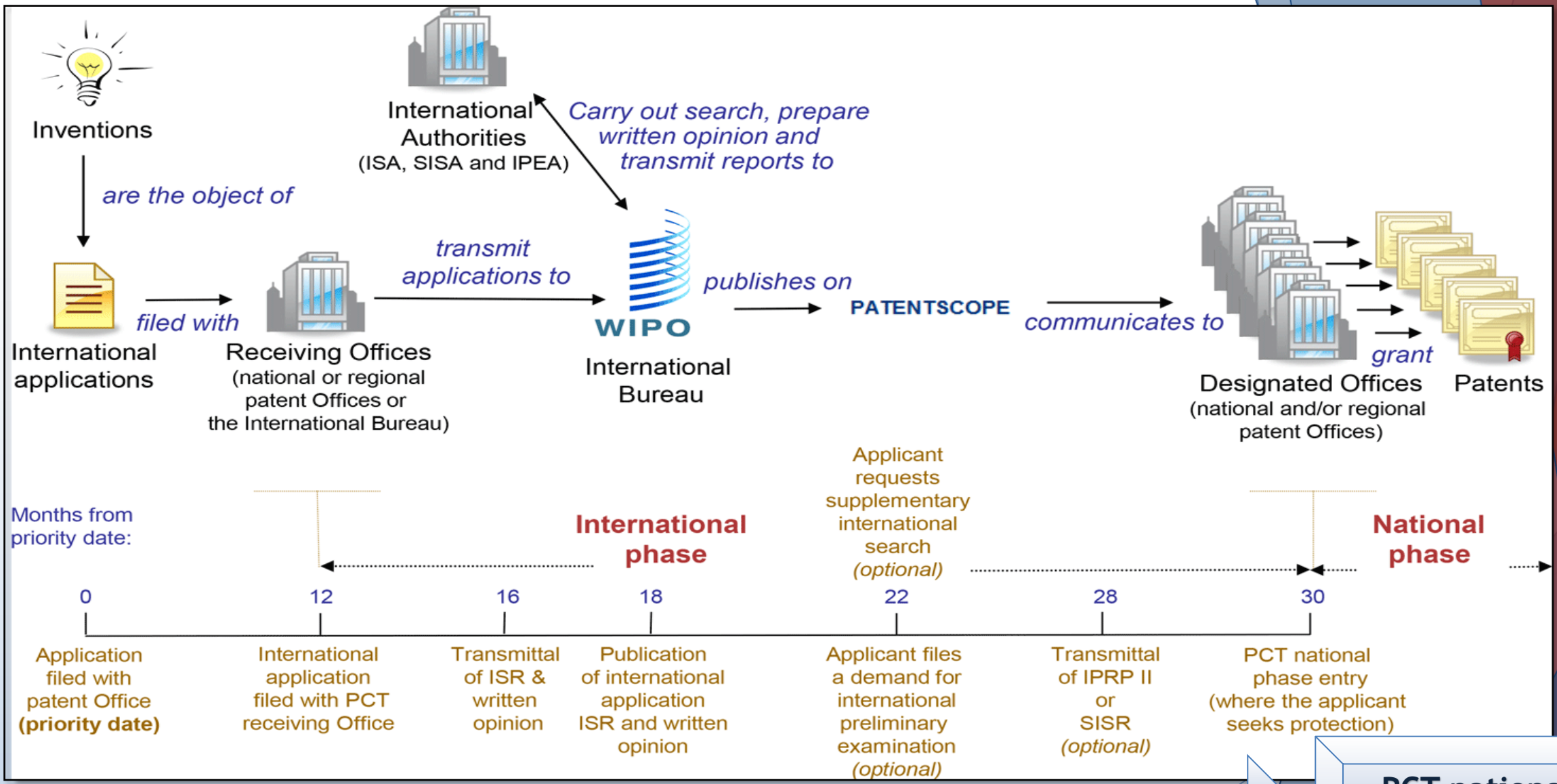
With **Automatic recoil wire winder you can save:**

- **Precision band deployment**
- **Time**
- **Effort**



Comparison

	New Technology	Boston Scientific	Normal band ligatores
			
Only one rubber band is applicable each trigger	✓	✓	✗
Automatic recoil wire winder	✓	✗	✗
Compatible with different sized ligation units	✓	✗	✗
No need for an extra attachment for stability	✓	✗	✗
Principle of the mechanism	pull-push principle	rotary motion	rotary motion



Priority date
29.10.2020

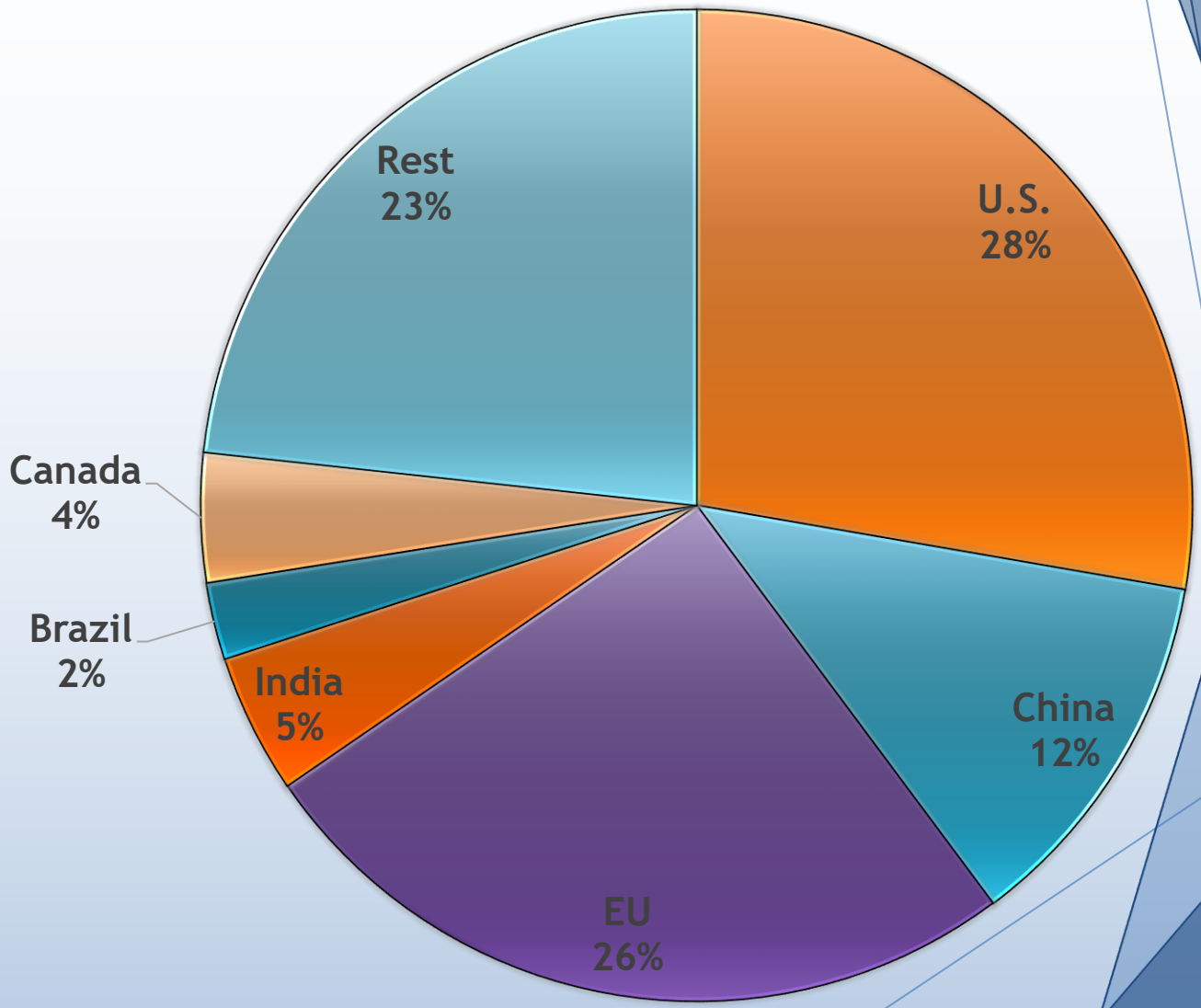
PCT Application
25.10.2021

Publication date
05.05.2022

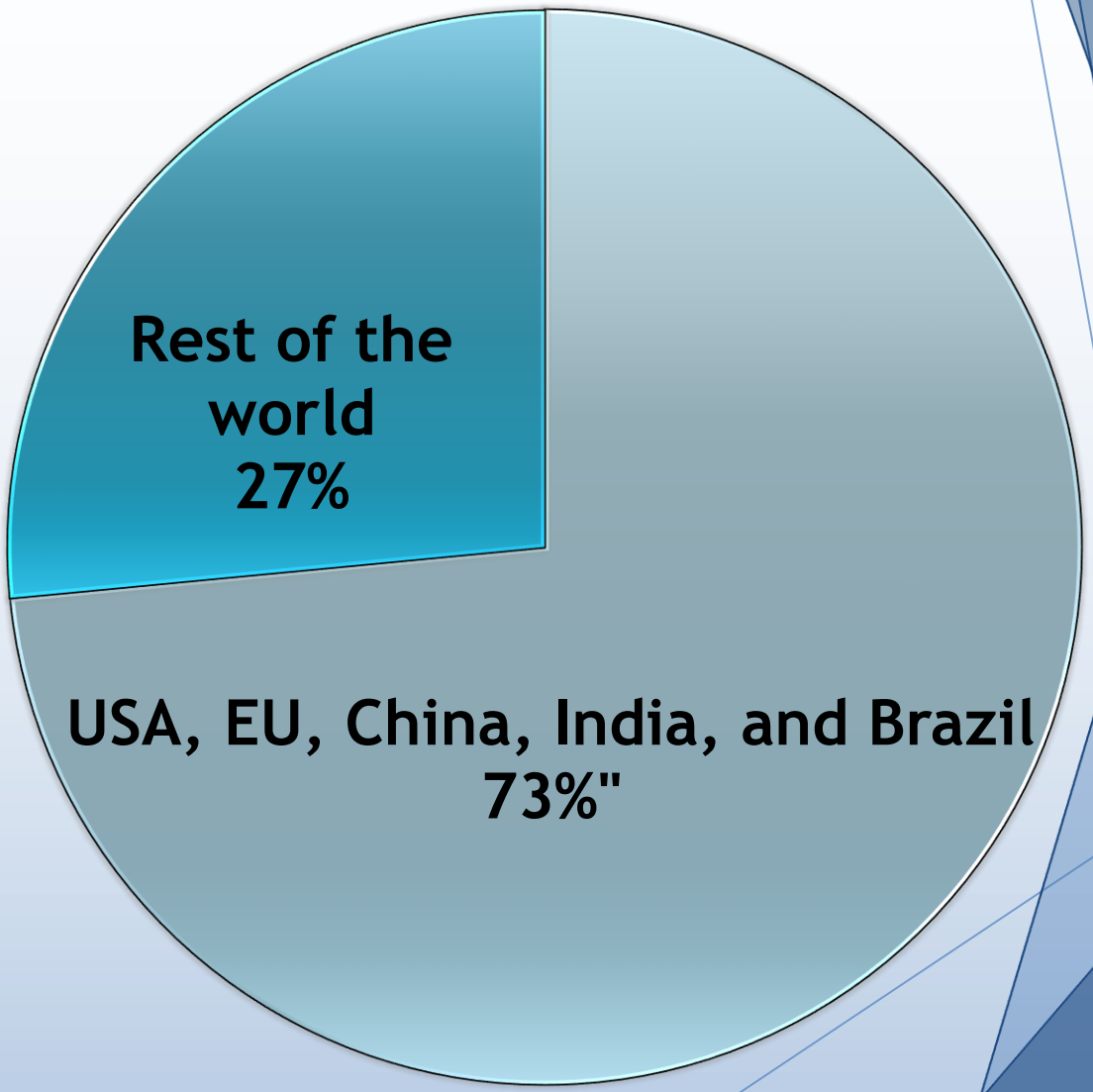
PCT national Phase entry
30.04.23
31.05.23

Global Band Ligators Market and country groups

Canada: Up to 12 months after the 30-month deadline (30 months from the priority date) the applicant can request reinstatement of rights provided that he/she pays the fee for reinstatement of rights and meets the other requirements outlined in subsection 154(3) of the Canadian Patent Rules for the reinstatement of rights (late entry into the national phase).



Global Band Ligators Market and country groups



- **Status of the patent:**
  German patent granted,
  PCT patents pending, entry into national phases: USA, EU, China, India, Brazil.
- **Status of the project:**
  Engineering drawings, fully functional prototype.
- **Technology offer:**

  Selling of patent rights.

Deutsches
Patent- und Markenamt

Aktenzeichen: [redacted]

Erteilungsbeschluss

In Sachen der/des

[redacted]

betreffend die Patentanmeldung mit dem amtlichen Aktenzeichen [redacted]

hat die Prüfungsstelle des Deutschen Patent- und Markenamts am 08.01.2024 beschlossen:

Das Patent wird mit den Unterlagen gemäß beigefügter Zusammenstellung der Publikationsunterlagen für die Patentschrift erteilt.

Die Laufzeit des Patents beginnt am 30.10.2020.

Änderungen in den Publikationsunterlagen sind aus den beigefügten, geänderten Beschreibungsseiten, Ansprüchen und/oder Figuren ersichtlich.

Das Patent führt die Nummer [redacted]

Global Band Ligators Revenue and Forecast by Type (USD-Million) 2023-2030

	2023	2024	2025	2026	2027	2028	2029	2030
Endoscopic Ligators	744.62	785.66	829.99	878.05	930.31	987.07	1,048.48	1,115.06
Non-endoscopic Ligators	255.83	267.51	280.05	293.59	308.23	324.05	341.05	359.36
Total	1,000.45	1,053.17	1,110.04	1,171.64	1,238.54	1,311.12	1,389.52	1,474.42

Published by: Cognitive Market Research

Global Band Ligators Market Revenue (USD-Million) 2018-2030

Region	2018	2022	2030	Market Share (%) 2030	CAGR (%) (2023-2030)
North America	297.81	324.63	509.91	34.58%	5.88%
Europe	248.61	261.93	383.50	26.01%	4.95%
APAC	224.36	254.51	430.38	29.19%	6.85%
Latin America	63.25	65.62	92.84	6.30%	4.49%
Middle East and Africa	44.77	44.75	57.78	3.92%	3.29%
Total	878.80	951.45	1,474.42	100.00%	5.70%

Published by: Cognitive Market Research

Global Band Ligators Market: Snapshot

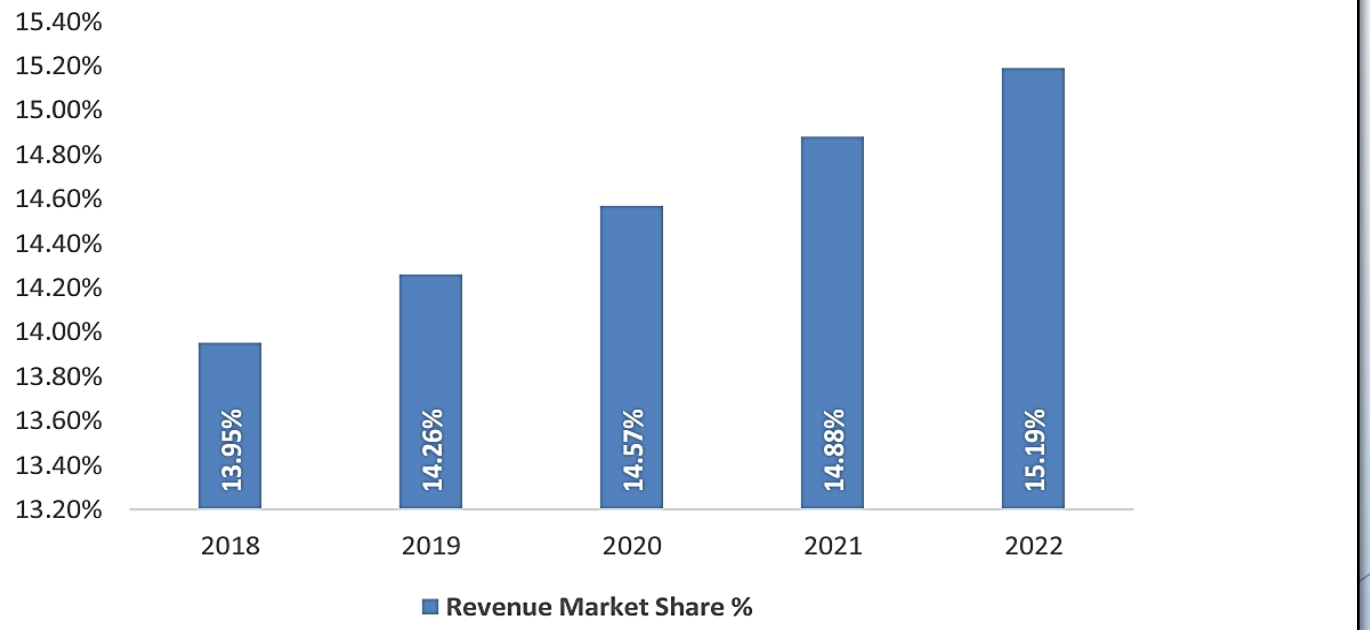
Band Ligators Market	2018	2023
Global Revenue (USD Million)	878.80 USD Million	1,000.45 USD Million
CAGR (2023 – 2030)	5.70%	
Key Type (Revenue Share USD Million)	Endoscopic Ligators: 76.46% Non-endoscopic Ligators: 23.74%	Endoscopic Ligators: 77.11% Non-endoscopic Ligators: 22.83%
Key Application (Revenue Share USD Million)	Hospitals and Clinics: 66.06% Ambulatory Surgical Centers: 33.94%	Hospitals and Clinics: 67.08% Ambulatory Surgical Centers: 32.92%
Key Regional Segment (Revenue Share USD Million)	North America: 33.89% Europe: 28.29% Asia Pacific: 25.53% Latin America: 7.20% Middle East and Africa: 5.09%	North America: 34.18% Europe: 27.34% Asia Pacific: 27.06% Latin America: 6.82% Middle East and Africa: 4.60%

Published by: Cognitive Market Research

Boston Scientific Corporation Revenue (USD-Million) and Market Share (%) (2017-2022)

Value	2018	2019	2020	2021	2022
Revenue	122.59	130.96	123.79	134.96	144.53

FIG. 43 Boston Scientific Corporation Revenue Market Share (%) (2017-2022)



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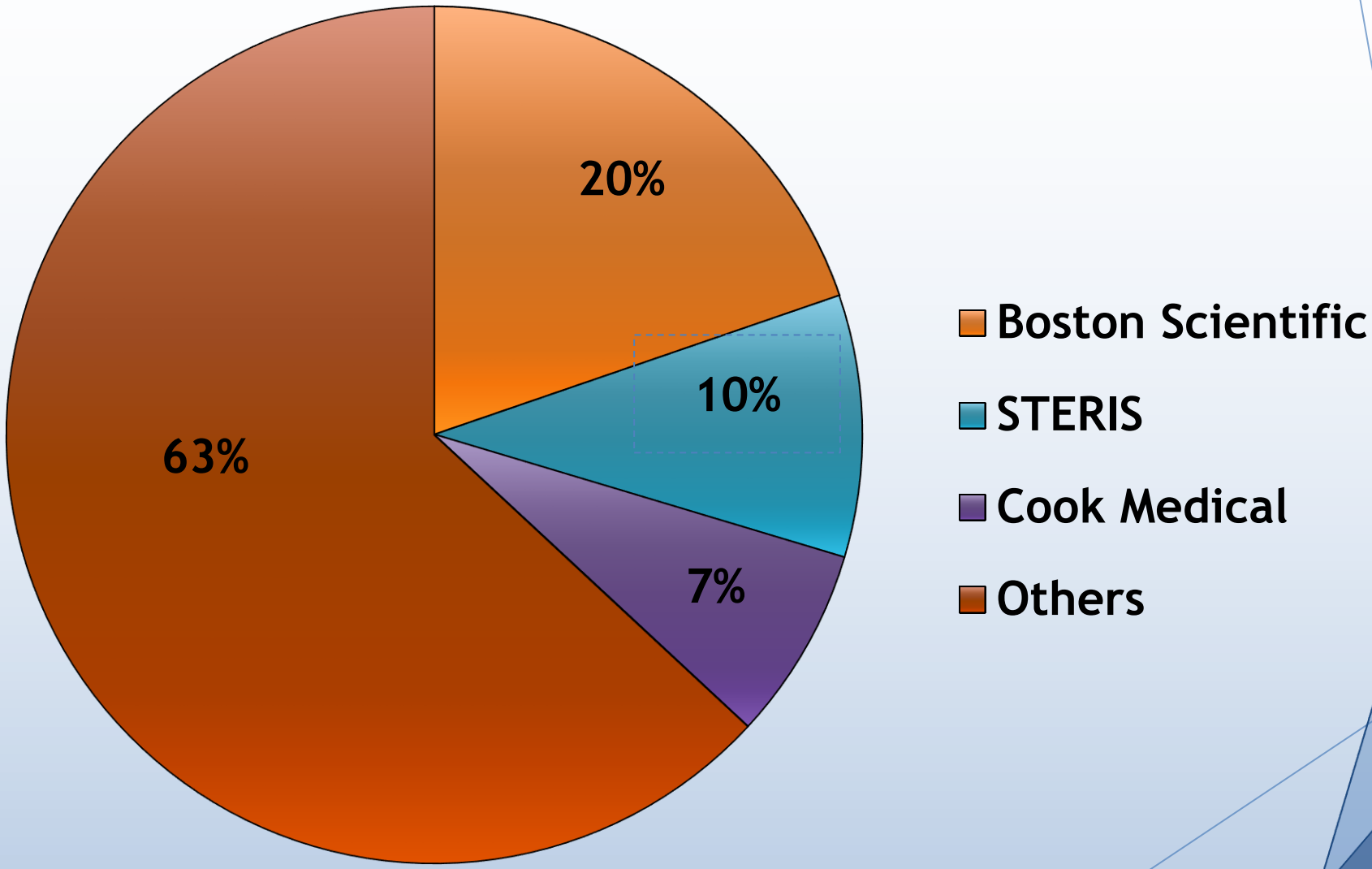
Global Endoscopic Ligators Market Revenue by Manufacturers 2022



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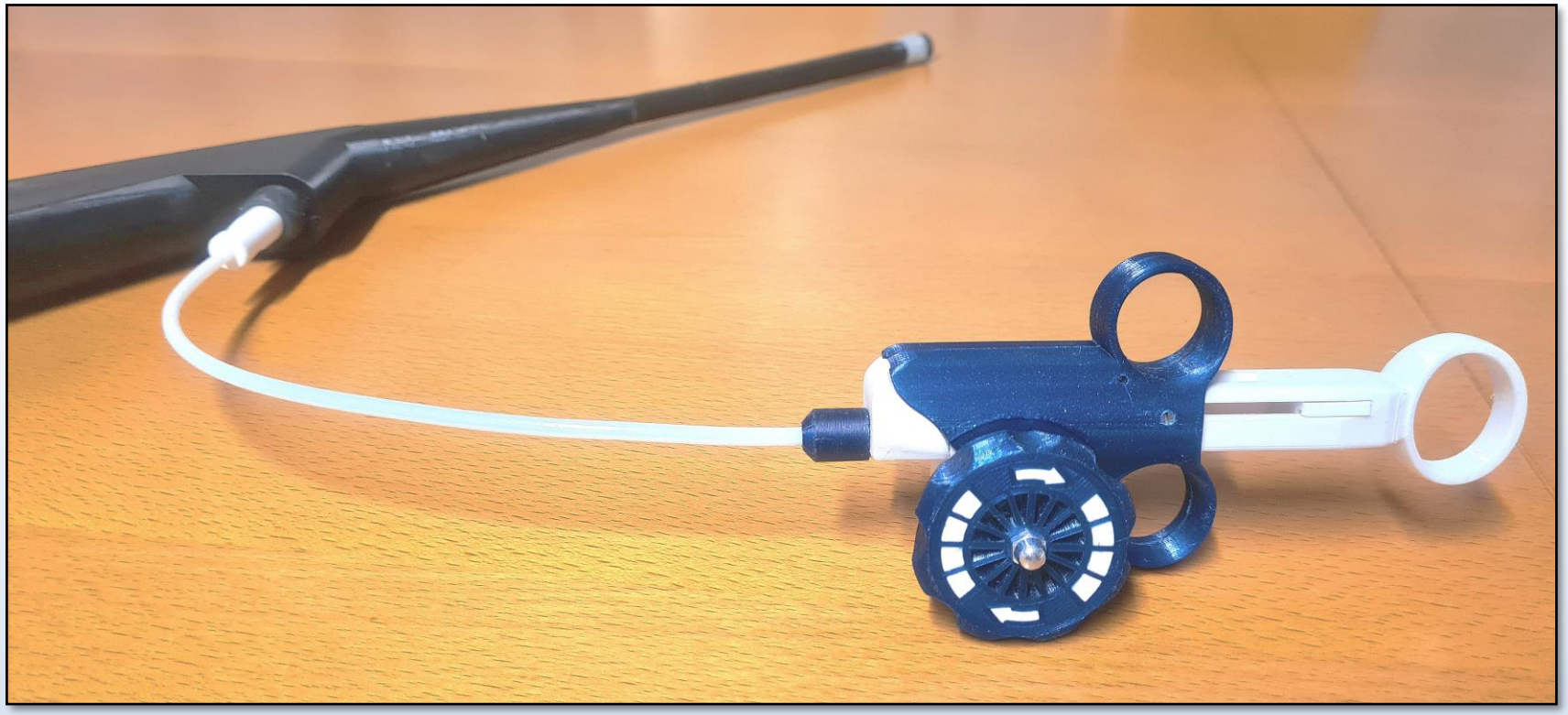
With the new technology of the Bandligator:

- Improved patient safety
- Reduced stress for endoscopist
- Enhanced confidence for endoscopy teams
- Increased innovation and market share for manufacturers



Lets win together