



# Multi Purpose MID-CABG Retractor

Catalog # **KS-8200** Patent No. 5,967,972

## From Ideas to reality

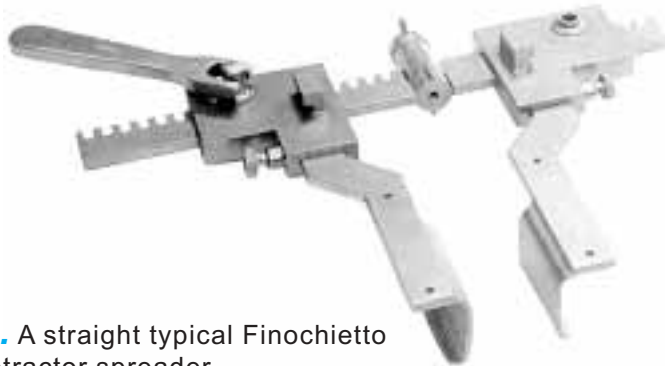
Kapp Surgical has given the surgeon a choice of a sophisticated MID-CABG reusable retractor, and / or an attachment to be used on a Cosgrove® Retractor for a sternum approach. Also, other universal attachments can be used on existing spreader retractors.

Kapp surgical has co-designed the Cosgrove® Mitral Valve Retractor along with Dr. Delos M. Cosgrove III. More recently, Kapp Surgical developed a permanent, durable, reusable Minimum Invasion Heart Retractor with the input of Dr. Alex Zapolanski of Seton Medical Center in San Francisco and the help of two prominent heart surgeons from the Cleveland Clinic Foundation, Cleveland, Ohio.

## One Retractor Does It All!

### 4 Retractors in 1

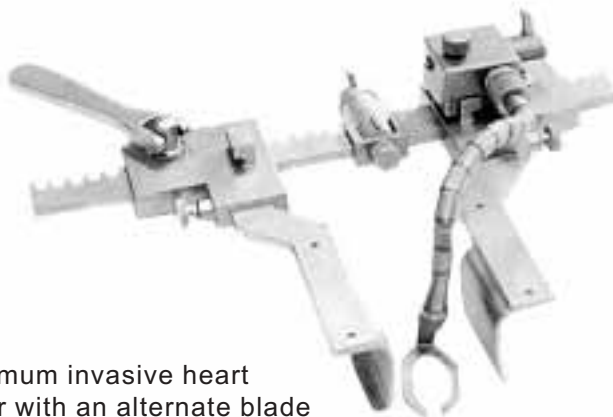
- 1** - A strong spreader retractor to take down soft tissue.
- 2** - A strong proximal lifting retractor - used to harvest the mammary artery.
- 3** - A coronary mid-cabg retractor with a patented strong stabilizer (flexible or rigid).
- 4** - This retractor can be used with "ratchet rack" placed transversely across the sternum and used for valve repair or valve replacement.



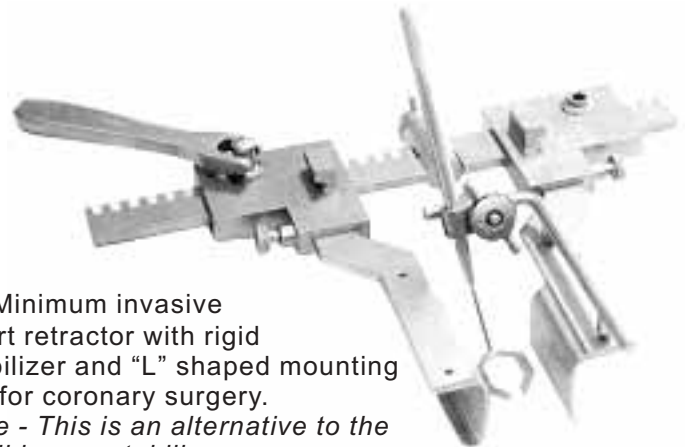
**1.** A straight typical Finochietto retractor spreader.



**2.** Minimum invasive heart retractor shown with towers and articulated proximal blade for easy mammary harvesting.



**3.** Minimum invasive heart retractor with an alternate blade of the Finochietto type shown above with a flexible stabilizer for coronary surgery.



**4.** Minimum invasive heart retractor with rigid stabilizer and "L" shaped mounting bar for coronary surgery.  
*Note - This is an alternative to the flexible arm stabilizer.*

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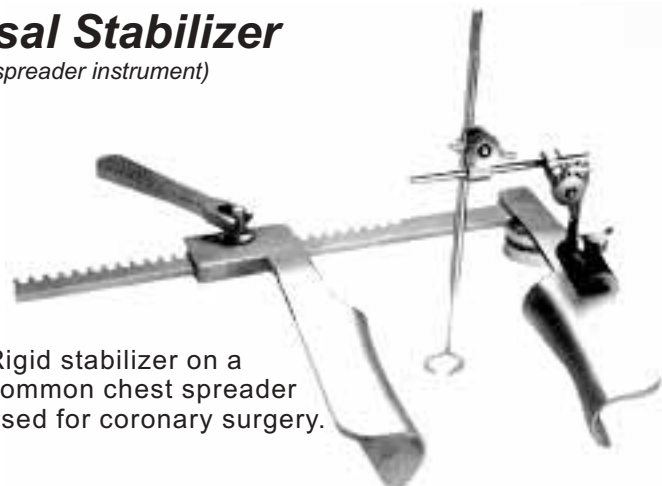
**Ancillary Universal Stabilizer**

*(Can be used on any chest spreader instrument)*

1. Rigid Universal Stabilizer  
Catalog # **KS-8300**  
Patent Pending



Actual stabilizer attachment



Rigid stabilizer on a common chest spreader used for coronary surgery.

2. Flexible Universal Stabilizer  
Catalog # **KS-8400**  
Patent Pending



Actual flexible stabilizer. (used for coronary surgery)



Stabilizer distal fork can be customized to the surgeon's specifications.



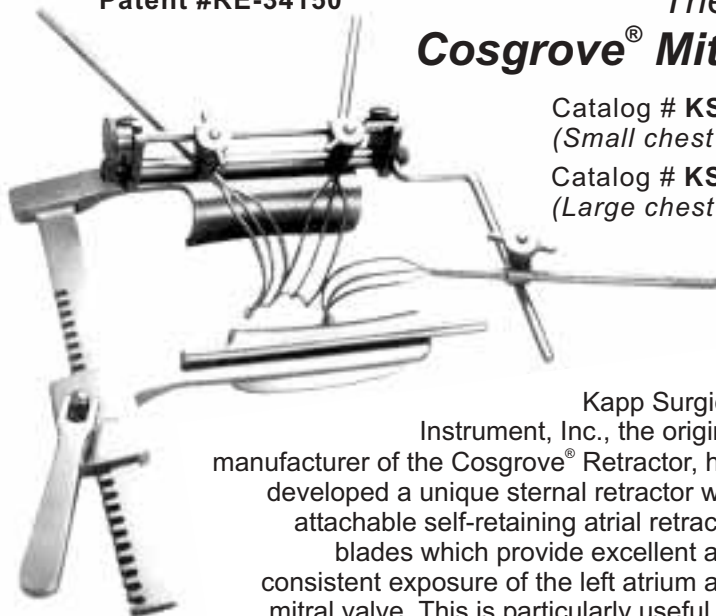
Flexible stabilizer used on any surgical chest spreader.

Patent #RE-34150

*The Original*  
**Cosgrove® Mitral Valve Retractor**

Catalog # **KS-7000-S**  
*(Small chest spreader)*

Catalog # **KS-7000-L**  
*(Large chest spreader)*



Kapp Surgical Instrument, Inc., the original manufacturer of the Cosgrove® Retractor, has developed a unique sternal retractor with attachable self-retaining atrial retractor blades which provide excellent and consistent exposure of the left atrium and mitral valve. This is particularly useful for mitral valvuloplasty, reducing the need for surgical assistance.



Catalog # **KS-7050**

Coronary surgery on a beating heart through the sternum can be best achieved along with an attachment added to the Cosgrove® Mitral Valve Retractor.

**From ideas to Reality** Kapp Surgical Instrument will custom design any specialty instrument to meet the specific requirements of hospitals, clinics, or surgeons - for prototype instrument to be used in surgery, or as a replacement for instruments no longer in production. Kapp Surgical will manufacture any surgical instrument for all specialties including micro-instruments.