

Intraocular Foreign Body Basket

Researchers at the University of South Florida have invented a medical device that can be used by ophthalmology specialists to remove small to very large intraocular foreign bodies.

Typical foreign body extractors in use include opposed jaws that operate as forceps. Some have jaws that move vertically, horizontally or even at an angle as in the case of the membrane peeling forceps. However these forceps are limited in utility because their 'bite size' is too small to remove relatively large foreign objects.

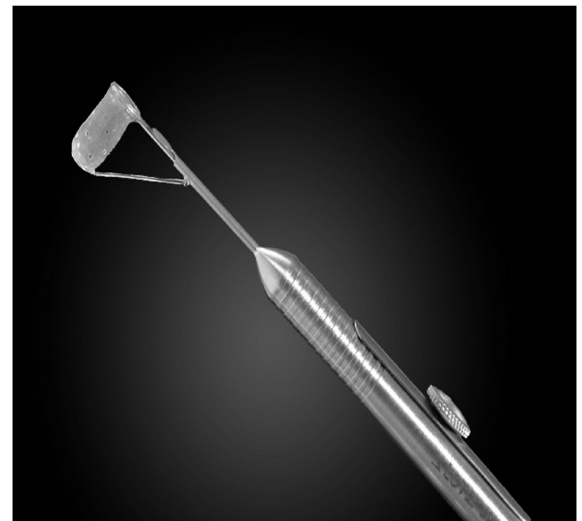
Moreover objects with irregular features, smooth surface or that are made of non magnetic materials are often hard to capture with these type of tools. Previous discoveries include tools with flexible mesh basket which are good improvement over the forcep-type tools. The drawback however, is the difficulty in manufacturing a flexible cinchable basket.

Our invention overcomes these difficulties and disadvantages by combining the utility of forcep-type tools with the capability to capture and remove from the eye, irregular shaped bodies, non-magnetic materials, and bodies having smooth surface of low friction coefficient. The basket used for capturing these objects yields itself to simple manufacture hence could be more economically available for use.

This invention is applicable in the field of ophthalmology and eye surgery.

ADVANTAGES:

- Removes irregular shaped bodies
- Removes non-magnetic objects
- Removes bodies with smooth surface
- Uses flexible basket
- Easier to manufacture



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