Non-Confidential Description - PSU No. 3614
“An Endoscopic Biopsy Needle”

Keywords:
Endoscope, biopsy, FNA

Links:
Inventor website-1
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Background
This invention is intended for use through a flexible endoscope to complete biopsies while eliminating the need for external incisions and increasing the amount of tissue removed. Current biopsies are performed using laparoscopic procedures. Small external incisions are made near the tissue of interest and needles with tissue capturing pockets are inserted into the tissue. Sometimes fine needle aspiration (FNA) is used to capture tissue in a long hollow needle using capillary action. Both of these procedures fail to reliably remove a sufficient amount of cells to complete a thorough diagnosis. Also, because these current procedures require and external incision, there is more risk of infection, longer recovery time, and increased patient discomfort.

Invention Description
This invention is a novel endoscopic biopsy needle used to capture tissue without any external incisions. The needle has a special geometry for capturing tissue. It is on the same size scale as current biopsy needles and can fit through a flexible endoscope to be used in endoscopic procedures. The needle is attached to an existing biopsy device which can advance the needle in and out of the tissue.

Advantages/Applications
- Removes a sufficient amount of tissue
- Can be used through a flexible endoscope
- Easy to manufacture
- Universal application; the needle can be used laparoscopic or endoscopic biopsies

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