Technology for License Summary
A biopsy cassette containing embedded dyes to give a better 3D position of the original prostate biopsy sample and a method of tracking the sample to a fiducial marker within the patient.

**Background**
Prostate biopsies are common, minimally invasive procedures where tissue samples are obtained from the prostate gland in order to diagnose or exclude cancer. Nearly one million biopsies are performed each year in the U.S. in response to elevated prostate-specific antigen (PSA) levels. Subsequent treatment for eligible patients using radiation and thermal energy is often targeted at the whole gland, which may lead to an increased cost of care and decreased patient quality of life caused by undue harm to normal tissue. There remains a need to accurately track the identification and volumetric location of the acquired sample into zoned histopathology. More discreet anatomic localization information can be used for treatment planning and accurate, safer therapeutic dosing.

**Technology**
This technology encompasses methods, apparatuses, and devices intended to optimize biopsy collection, tracking, and analysis. A tissue-receiving cassette is organized into color-coded sections to match with specific identification within the patient’s gland as to where a tumor or other disease pathology exists. A fiducial marker is placed at the location of biopsy to orient with proximal and distal ends of the sample. This further detail will lead to more informed repeat medical interventions and accurately directed treatment towards a smaller volume of the gland with a reduced margin. Additional novelty is embodied in unique trocar, stylet, and cassette designs and functionality.

**Inventors**
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**Technology ID**
2014-004

**Market**
3.1 million men in the U.S. with prostate cancer and are eligible for routine biopsy monitoring, $65M TAM U.S.

**Stage of Development**
Patent application
US20170105709A1

**For More Information**
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