



## TECHNOLOGY LICENSING OFFICE

4301 West Markham Street, #831

Little Rock, AR 72205

501.686.6696

email: [junderwood@uams.edu](mailto:junderwood@uams.edu)

### **BV 2017-07 - *Biopsy Syringe for Pathology Specimen Processing***

**APPLICATION:** This novel biopsy collection syringe provides streamlined processing of pathologic samples

- KEY BENEFITS:**
- Reduced specimen handling
  - Reduced loss of small tissue samples
  - Reduced risk of specimen contamination
  - Adaptable to existing procedures

**MARKET SUMMARY:** Biopsy collection is a routine procedure in the health care field. Currently, when a clinician removes a biopsy from a patient, the specimen is placed in a small biopsy jar filled with formalin. Patient identification and specimen description must be placed on the container. A requisition sheet is generated, which has patient identification and a description for each specimen. The requisition sheet and the specimen(s) are then sent to the pathology laboratory where pathology laboratory personnel are responsible for accessioning the specimen and generating biopsy cassettes labeled with the case number. The biopsy container is opened and the specimen is placed in the appropriate biopsy cassette, usually with forceps. The cassettes are permeable, which will allow a variety of chemicals to flow through the container when the specimen is placed in the tissue processor machine before being imbedded in paraffin.

There are many sources of error in this process. Any time a container with a small amount of material is opened and the material is transferred from one container to another, there is a possibility for specimen loss. The specimen is usually manipulated with forceps, which may crush the specimen, making interpretation difficult. It is also possible the specimen may become contaminated with another patient's tissue from tissue already present on the forceps, leading to a wrong diagnosis.

**BV 2017-07 - Biopsy Syringe for Pathology Specimen Processing**  
**Continued**

**TECHNICAL**  
**SUMMARY:**

The present invention is a biopsy syringe, which allows for a smaller, more secure container for collection of biopsy specimens. Small specimens, in particular, may be collected and placed directly in the biopsy syringe, as opposed to a specimen jar. The biopsy syringe can then be placed into a processing cassette and processed in the normal manner. After processing, the syringe containing the sample may be evacuated by use of the existing plunger. In this manner, the number of handling steps is reduced, and the likelihood of losing small samples is significantly decreased. Additionally, there is reduced likelihood of contamination.

**DEVELOPMENTAL**  
**STAGE:**

A model has been created but not validated

**PATENT**  
**INFORMATION:**

App Type: Provisional  
Country: U.S.  
Serial No.: 62/599,497  
File Date: 12/15/2017