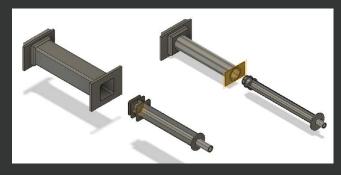


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Syringe based rapid processor for small biopsies

TECHNICAL FIELD Diagnostics

APPLICATION Morphologic diagnosis, immunohistochemistry

DESCRIPTION

There is a significant unmet need in the field of pathology for rapid processing of small biopsies which allows clinicians to make a preliminary diagnosis prior to patient discharge. The current methodology to process "immediate reads" involves running a standard tissue processor coupled with traditional embedding technique, which are both slow and wasteful due to limited ability to scale down solvent usage. Turn-around times for "rapid processing" using current techniques typically range from 4-7 hrs, often preventing physicians from making same day diagnosis without destroying precious tissue. This often results in delayed diagnosis, additional use of both patient & healthcare resources, and potentially poorer patient outcomes.

Dr. Paul Lee has developed a novel tissue fixation and embedding system that combines the tissue fixation and embedding process creating a rapid processing block for biological specimens. The invention dramatically shortens processing and embedding time to approximately 2 hrs while preserving the antigenicity and morphology of the specimen and thus allows for rapid reads of small biopsies in a timeframe that was not previously achievable. The technology involves a syringe-based device with a novel solvent management system that allows for rapid-processing with much less solvent waste. Importantly, the formalin-fixed paraffin blocks produced by this system are high quality and non-inferior to traditional methods.

For discussions around learning more or licensing this technology please contact Tais Doll today.

ADVANTAGES

- Rapid, convenient processing
- Disposable specimen cuvette (no cross contamination)
- Antigenicity preservation
- Less solvent usage (associated with less cost for solvent disposal)
- Can be easily incorporated into existing infrastructure
- Very small footprint

INTELLECTUAL PROPERTY

• PCT/US19/68559

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