

# Light Microscope Attachment for High Resolution Laser Labeling of Microscopic Glass Slides and Histological Sections

Published date: Feb. 24, 2017

## Technology description

### In Situ Marking of Microscope Slides with Laser Aided Instrumentation

Invention novelty: This invention is a system that could permanently mark the microscope slide with an optical laser.

### Technical details

Johns Hopkins researchers have been working on developing equipment that could mark microscope slides with laser. The design of the system is proposed allowing for laser marking of microscope slides while maintaining the eye-safety for the operator. Spot size could be changed by varying pulse energies. Laser-marking is visible through the entire depth of microscope slide. High resolution marking is achieved. Marking has been automated with step sizes of 1  $\mu\text{m}$  or less and recognizable shapes.

## Advantages

The technology can be commercialized as a microscope that could microscope slides could be in situ marked with laser. Currently there is no similar product in market.

- Controllable spot size
- Permanently marked
- High resolution

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