

Protector against ocular infections for microscopy equipment

DESCRIPTION OF THE TECHNOLOGY

CSIC and Miguel Hernández University have developed a system to protect the eyes against infections to be placed on the eyepieces of microscopes. This personal use device allows protecting users' eyes in any microscopy system in an effective, simple and cheap way, achieving a reduction in the health risks associated with the shared use of microscopes in research, teaching, healthcare, surgery and industry.

Currently there is no marketable solution to protect user's eyes in shared microscopes, being therefore necessary to apply rudimentary, uncomfortable and unreliable homemade solutions.

This device consists of a cylindrical system that can be attached to the eyepieces, which allows observing samples without image distortions thanks to a transparent foil. After its use, the device can be removed and carried in a pocket, and can also be disinfected and cleaned for further uses, reducing therefore the generation of waste. In case of deterioration, either the layer or the whole device can be easily replaced.

The low technological requirements of the invention ensure a low manufacturing cost and a high degree of adaptability for any commercial microscope.

MARKET APPLICATION SECTORS

Application in shared microscopes in clinics (health and pharma), laboratories (research), teaching (high schools and universities), etc.

TECHNICAL ADVANTAGES AND BUSINESS BENEFITS

- Removes completely the risk of transmission of eye infections in shared microscopes, therefore reducing laboratory-associated health risks.
- Reduces risks associated with shared use of equipment through an individually-owned protection device.
- Easy and comfortable to use, stock and carry. Ensures maintaining the quality of microscope images.
- Reduces deterioration of microscope eyepieces by protecting them and avoiding their necessity of disinfection.
- Versatile and adaptable to any microscope model.
- Cheap and easy to escalate, no need of huge investments for its industrialization.

CURRENT STATE OF DEVELOPMENT

PCT patent application filed. The device has been tested and is currently in use in the laboratories of the institute.

COLLABORATION SOUGHT

Industrial partners in the sectors of laboratory equipment and/or operational safety equipment are being sought to collaborate through a patent license agreement for the commercialization of the device.

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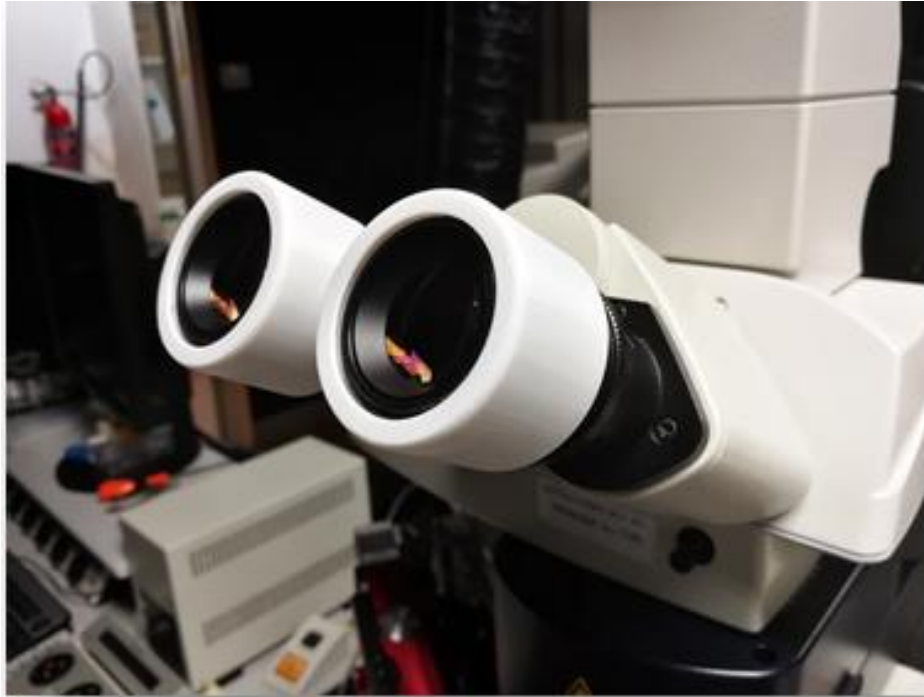


Image 1. Protection device attached to the oculars of a microscope.

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