

Holograms with active security elements

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Beneficiary: Optaglio, a.s., Lochovice

Partner: VSB – Technical University of Ostrava

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Total project costs: CZK 17,577,018

EU funding: CZK 12,303,912.60

Other sources of funding: CZK 5,273,105.40

The goal of the project is to develop new products in the field of security holography that will be highly competitive in the world markets. It is based on joint industrial research of Optaglio company and research institution VSB-Technical University of Ostrava. The products are new and original security element protecting falsification.

The project is focused on original approaches of security holography combining high technological production and advanced methods of nanostructure design.

The target of the project is achieving the following results of research and development: three functional samples and one proven technology.

Functional samples:

1. Hologram with diffraction switching of photoluminescence pattern.
2. Diffraction free-form holographic security element working in white light.
3. Free-form diffractive hologram with color effects.

Proven technology:

Lamination of fluorescent layer into industrial holograms.



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