

The invention relates to the semiconducting silverless photography, in particular to the technique for optical information recording, and may be used in microphotography for manufacture of microfiches, microfilms, storage disks, in the multiplication and copying technique, in holography, in micro- and optoelectronics, cinematography, etc.

The system for optical images and holographic information recording includes an optical exposure system, an information carrier, containing a dielectric substrate with the first electrode, a photosensitive element and the second electrode, arranged in consecutive order, a constant and impulse voltage source, a means for clamping and movement of the information carrier, a control unit for connection of the voltage source to the electroconducting strata, a personal computer, connected to the control unit of the recording modes, to the exposure system and to the means for clamping and movement of the information carrier, an electrooptical transparency, connected to the computer by means of the matching unit.

The carrier for optical images and holographic information recording contains a dielectric substrate, a photosensitive element formed of a layer of the vitreous chalcogenic semiconductor and a layer of the crystalline or amorphous semiconductor, forming a heterojunction, the photosensitive element is arranged between two electrodes, one of which is made transparent, in such case the layer of the vitreous chalcogenic semiconductor comes into contact with the superior transparent electrode, subjected to exposure.