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(54) Title: A METHOD OF MANUFACTURING A DISCRETIZED OPTICAL SECURITY MICROSTRUCTURE ON A SUBSTRATE AND A SHIM FOR USE IN THE METHOD

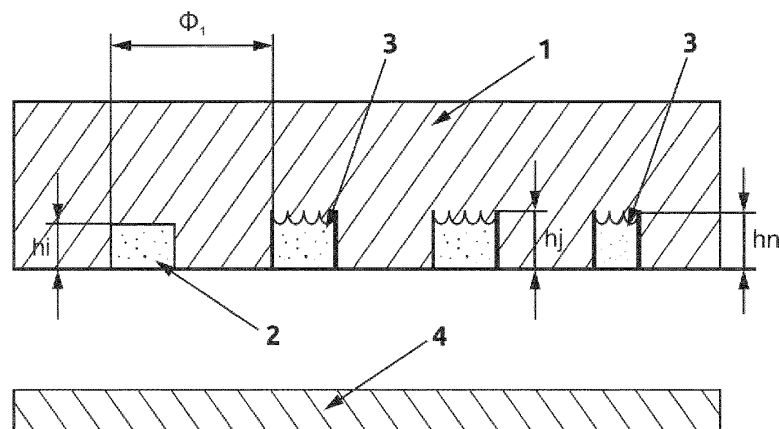


Fig. 1

(57) Abstract: The present invention relates to a field of securing against counterfeiting things such as documents or money. The present invention relates particularly to a manufacturing of a discretized optical security microstructure. A method of manufacturing a discretized optical security microstructure (2) on a substrate (4) is disclosed, wherein the method comprising steps of: a) providing an ink into one or more cavities of a shim (1), wherein said one or more cavities of the shim represent said discretized optical security microstructure (2), b) pressing the shim (1) against the substrate (4), c) removing the shim (1) from the substrate (4), wherein in the step c) the shim (1) is removed from the substrate (4) such that the ink remains on a surface of the substrate (4) forming a discretized optical security microstructure (1). A shim for use in the method according to the invention is disclosed, said shim (1) comprising a number of cavities and wherein the characteristic size of individual cavity, such as its width and the length, is from 80 μm to 50cm and the depth of individual cavity is from 300 nm to 100 μm, wherein said cavities of the shim (1) represent a discretized optical security microstructure (2) representing diffractive or another optically active surface (3), preferably in a form of macro and/or micro relief, or

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