G00002

Abstract

Method for fabricating microstructures and arrangement of microstructures

A method referred to as "cellular damascene method" is presented, in which a multiplicity of regularly arranged closed cavities (H), referred to as cells, are produced in a patterning layer. The dimensions of the cavities are of the order of magnitude of the microstructures to be produced. By means of a mask, selected cavities (H') are opened and partitions (4) situated between them are removed, thereby producing trenches (8) and holes which are filled with the material (M) of the microstructures (M) to be fabricated. Protruding material (M) is removed by means of a CMP step. The microstructures are, in particular, interconnects and contact holes of an integrated circuit.

162162

figure 2A