5. The component carrier of the preceding claim, wherein the carrying member comprises carrying elements (222) protruding towards an inside of each receiving opening and configured for carrying the one or more components.

6. The component carrier of any one of claims 2 - 5, wherein the component carrier further comprises a down-holder mask (230) configured to be mounted onto the top surface of the component support, the down-holder mask comprises one or more mask opening (231) configured for allowing access to the component(s), and the mask opening(s) correspond in position to the component position(s) defined by the positioning opening(s) of the component support.

7. The component carrier of the preceding claim, wherein the down-holder mask further comprises positioning pins (233) protruding from a bottom surface (230b) of the down-holder mask and configured for fitting in positioning bores (223) formed in the top surface of the component support.

8. The component carrier of any one of claims 2 - 7, wherein a gas inlet (214) and a gas outlet (215) are provided in the receiving recess, and wherein the gas inlet and gas outlet are in fluid connection with a gas inlet connection (216) and a gas outlet connection (217), respectively, through one or more gas ducts (218),

wherein the gas inlet connection is configured for connecting to a gas source and the gas outlet connection is configured for connecting to a gas drain to provide a continuous gas flow to the one or more components.

9. The component carrier of any one of claims 3 - 8, wherein the component carrier is configured for holding a gas-impermeable foil, sheet or film (250) completely covering the carried one or more components and creating a closed cavity for the one or more components.

10. The component carrier of the preceding claim, wherein, when the down-holder mask is mounted onto the top surface of the component support , the gas-impermeable foil, sheet, or film is clamped between the down-holder mask and the top surface of the component support.

11. A method for processing a component in a processing apparatus (10), wherein the method comprising employing a component carrier according to any one of the preceding claims .