CLAIMS

1. Device for dispensing adhesive on a substrate, comprising a writing head (1) movable in three spatial directions, wherein a first dispensing nozzle (4) and at least one second dispensing nozzle (6) can be fixed to the writing head (1) in such a way that the tip of the first dispensing nozzle (4) is fixed and the tip of the at least one second dispensing nozzle (6) is movable in a direction extending substantially perpendicularly to a surface of the substrate, wherein an actuator (21) with a pin (22) is fixed to the writing head (1), and wherein the device can be operated in two operating modes and is configured to perform the following steps for the change from the one operating mode to the other operating mode:
- lifting of the writing head (1),
- retracting or extending the pin (22), and
- lowering of the writing head (1) to a predetermined working altitude, wherein the tips of the dispensing nozzles (4, 6) reach a substantially similar altitude above the substrate in the retracted state of the pin (22), and wherein the tip of the at least one second dispensing nozzle (6) reaches a higher altitude above the substrate than the tip of the first dispensing nozzle (4) in the extended state of the pin (22).

2. Device according to claim 1, wherein the device comprises four struts (17) which are connected to each other via flexure hinges (18), wherein the at least one second dispensing nozzle (6) is fixed to one of said struts (17), wherein the flexure hinges (18) enable a movement of the tip of the at least one second dispensing nozzle (6) in the said direction which extends substantially perpendicularly to the surface of the substrate, and wherein a guide (13) prevents a movement of the strut (17) to which the at least one second dispensing nozzle (6) is fixed in other directions.

CLAIMS

1. A device for dispensing adhesive on a substrate, comprising:

a writing head movable in three spatial directions, the three spatial directions including two directions extending parallel to a surface of the substrate and one direction extending substantially perpendicularly to the surface of the substrate, the writing head configured to receive a first dispensing nozzle and at least one second dispensing nozzle each having a tip so that the tip of the first dispensing nozzle is fixed and the tip of the at least one second dispensing nozzle is movable substantially in the direction extending substantially perpendicularly to the surface of the substrate, and

an actuator with a pin, the pin configured to be fixed in one of a retracted state wherein the pin is retracted and an extended state wherein the pin is extended, wherein

the device is configured to be operated in a first operating mode and a second operating mode and is configured to perform the following steps when changing between the first operating mode and the second operating mode:

lifting the writing head,

changing the state of the pin between the retracted state and the extended state, and

lowering the writing head to a predetermined working altitude, wherein the tips of the dispensing nozzles reach a substantially similar altitude above the substrate when the pin is in the retracted state, and wherein the tip of the at least one second dispensing nozzle reaches a higher altitude above the substrate than the tip of the first dispensing nozzle when the pin is in the extended state.

2. The device according to claim 1, wherein:

the device further comprises four struts which are connected to each other via flexure hinges,

the at least one second dispensing nozzle is fixed to one of the struts,

the flexure hinges are configured to enable a movement of the tip of the at least one second dispensing nozzle in the direction which extends substantially perpendicularly to the surface of the substrate, and

a guide is configured to prevent a movement of the strut to which the at least one second dispensing nozzle is fixed in the two directions extending parallel to the surface of the substrate.