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(54) Title: METHOD FOR VERIFYING THE ACCURATE MOUNTING OF MOLDING INSERTS TO A TOOLING PLATE OF AN INJECTION-MOLDING APPARATUS FOR MOLDING OPHTHALMIC LENS MOLDS

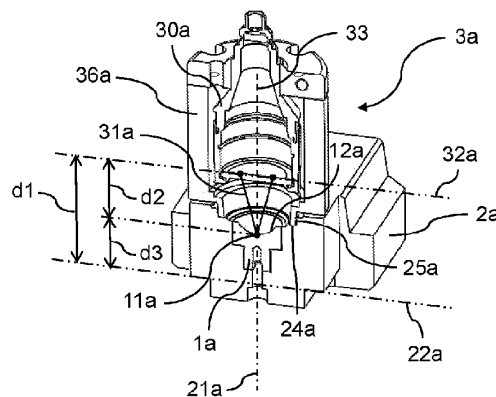


Fig. 4

(57) Abstract: A method for verifying whether a molding insert (1a, 1b) is accurately mounted to a tooling plate (2a, 2b) comprises the steps of: a) providing a confocal sensor (3a, 3b); b) arranging the confocal sensor (3a, 3b) such that a confocal sensor reference plane (32a, 32b) as well as a tooling plate reference plane (22a, 22b) are normal to a mounting axis (21a, 21b) of the tooling plate and spaced from each other by a predetermined first distance (d1, e1); c) measuring a second distance (d2, e2) between the confocal sensor reference plane (32a, 32b) and a central impingement location (11a, 11b) on a molding surface (12a, 12b) of the molding insert (1a, 1b); d) based on the measured second distance (d2, e2) as well as based on the predetermined first distance (d1, e1), determining a third distance (d3, e3) of the central impingement location (11a, 11b) relative to the tooling plate reference plane (22a, 22b); e) comparing the third distance (d3, e3) with a predetermined target distance, and f) determining that the molding insert (1a, 1b) is accurately mounted to the tooling plate (2a, 2b) if the difference between the third distance (d3, e3) and the predetermined target distance is less than a threshold difference.

[Continued on next page]

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