

Title (en)

Injection Nozzle System and Ceramic Nozzle Hood

Title (de)

Einspritzdrüsensystem und keramische Düsenhaube

Title (fr)

Système de buse à injection et capot de buse en céramique

Publication

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Application

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Priority

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Abstract (en)

The present disclosure refers to a ceramic nozzle hood (30) that is configured to be used in a fuel injection nozzle system (10), the ceramic nozzle hood (30) having an inner surface that surrounds an inner chamber, the inner chamber extending along a longitudinal axis (23) and being closed at an injection side and open at a nozzle holder side, the injection side and the nozzle holder side being at opposite sides of the ceramic nozzle hood (30) along the longitudinal axis (23). The ceramic nozzle hood (30) comprises, at the injection side of the ceramic nozzle hood (30), a first member contact face (90) on the inner surface of the ceramic nozzle hood (30), the first member contact face (90) extending essentially in a radial direction with respect to the longitudinal axis (23) and facing towards the nozzle holder side, and, at the nozzle holder side of the ceramic nozzle hood (30), a collar (38). The collar (38) comprises on opposite sides a second member contact face (92), which extends essentially in a radial direction with respect to the longitudinal axis (23) and faces away from the ceramic nozzle holder (3), and a mount contact face (27), which extends essentially in a radial direction with respect to the longitudinal axis (23) and faces towards the injection side. The inner chamber of the ceramic nozzle hood (30) comprises a blind hole section (22) at the injection side of the ceramic nozzle hood (30) and the blind hole section (22) is fluidly connected to a remaining section of the inner chamber along the longitudinal axis through the first member contact face (90) and to an outside of the ceramic nozzle hood (30) via a plurality of nozzle spray holes (24). Furthermore, an injection nozzle system with a ceramic nozzle hood (30) and a method for mounting an injection nozzle system (10) with a ceramic nozzle hood (30) onto a nozzle holder (18) are disclosed.

IPC 8 full level

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Citation (applicant)

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Citation (search report)

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