

Title (en)
Injection device for an internal combustion engine.

Title (de)
Einspritzgerät für einen Verbrennungsmotor.

Title (fr)
Dispositif d'injection pour moteur à combustion interne.

Publication
EP 0460572 B1 19940420 (FR)

Application
EP 91109031 A 19910603

Priority
FR 9007097 A 19900607

Abstract (en)
[origin: EP0460572A1] Fuel injection device for an internal combustion engine, particularly for a diesel engine, comprising two injection nozzles, one serving for the pre-injection of fuel, the other for the main injection of fuel, the said injection nozzles being located close to one another in the vicinity of the centre of the cylinder head, characterised in that the pre-injection nozzle comprises a series of holes, the axes (8a, 9a) of which are based on a first cone, and the main injection nozzle (2) comprises a series of holes, the number of which is double that of the pre-injection nozzle and the axes (5a, 6a, 7a) of which are based on a second cone, the relative position of the cones, the angle of each of the cones and the alignment of the axes of the holes on the cones being chosen in such a way that in an area located essentially half way along the main injection jets the distances between each of the pre-injection jets and the associated two main injection jets are minimal and essentially equal. <IMAGE>

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IPC 8 full level
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