

Title (en)  
Mechanical fuel injection.

Title (de)  
Mechanische Kraftstoffeinspritzung.

Title (fr)  
Injection mécanique de carburant.

Publication  
**EP 0193754 A2 19860910 (DE)**

Application  
**EP 86101722 A 19860211**

Priority  
DE 3508224 A 19850308

Abstract (en)  
1. Mechanical fuel injection for an internal combustion engine having a fuel pump, a fuel accumulator, a mixture regulator (22) with fuel distributor (40) which opens a fuel supply to injection valves (17, 32, 44) by means of a displacement, controlled by the airflow sensor (24), through built-in metering slits, a cylinder injection valve (17) being associated with each cylinder of the internal combustion engine, having a central injection valve (32) for the cold-start enrichment and an airflow sensor (24) associated with the mixture regulator, said airflow sensor controlling the fuel distributor (40), characterized in that a further fuel central injection valve (44) is provided in a suction tube section (14) common to all cylinders, of the internal combustion engine, said suction tube section being supplied in the idling mode with a predeterminable amount of fuel, and in that the metering slits for the cylinder injection-valves (17) are completely closed in the idling mode and an additional metering slit for the central injection valve (44) is provided, said metering slit opening at least in the idling mode.

Abstract (de)  
Es wird eine mechanische Kraftstoffeinspritzanlage vorgeschlagen, bei der unter Leerlaufbedingungen die Kraftstoffversorgung durch eine zentrale Einspritzstelle übernommen wird, während unter Lastbedingungen der Kraftstoff von Einspritzventilen geliefert wird, die jedem Zylinder getrennt zugeordnet sind. Durch die Zentraleinspritzung im Leerlauffalle wird ein unrunder Lauf der Brennkraftmaschine im Leerlauf vermieden.

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IPC 8 full level  
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CPC (source: EP)  
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