



CENTRE
FOR MARITIME TECHNOLOGY TRANSFER



Fuel injector



INNOVATIVE NATURE

The final part of the fuel system, the fuel injector, ensures that the correct amount of fuel is dispensed. A thin-walled cylinder with an applied layer of catalyst is inserted into the injector body. During fuel flow, this catalyst contributes to the fuel dehydrogenation reaction, thereby shortening the length of the auto-ignition delay period. As a result, degree of combustion is increased and maximum cycle temperatures are decreased, reducing specific fuel-consumption and nitrogen oxide emissions.



BENEFITS FOR INDUSTRY

- the system's additional element, a thin-walled sleeve, does not necessitate changing the technological process of fuel injector manufacturing;
- this thin-walled sleeve can therefore be installed in injectors already in service.



INTENDED USERS

- shipyards;
- shipowners;
- engine producers;
- transport companies connected with exploitation of devices having compression ignition engines;
- companies operating in the power and shipbuilding sectors.

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Patents:
PAT.220085



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