

# Diesel Injection Shear-Stress Advanced Nozzle (DISSAN)

Applicable to HCCI Engines

Patented Under: FUEL INJECTION SYSTEM AND FUEL INJECTOR WITH IMPROVED SPRAY GENERATION  
PCT-1247754, WO2006/084064, US60/850,390. Applicant and Inventor: MURAD ISMAILOV.



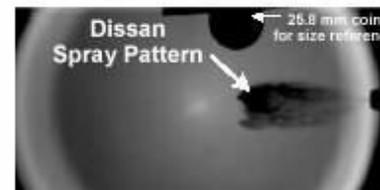
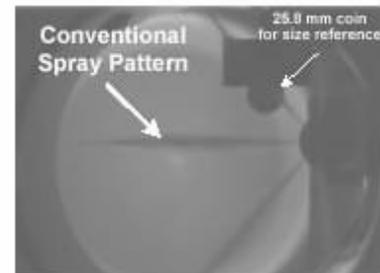
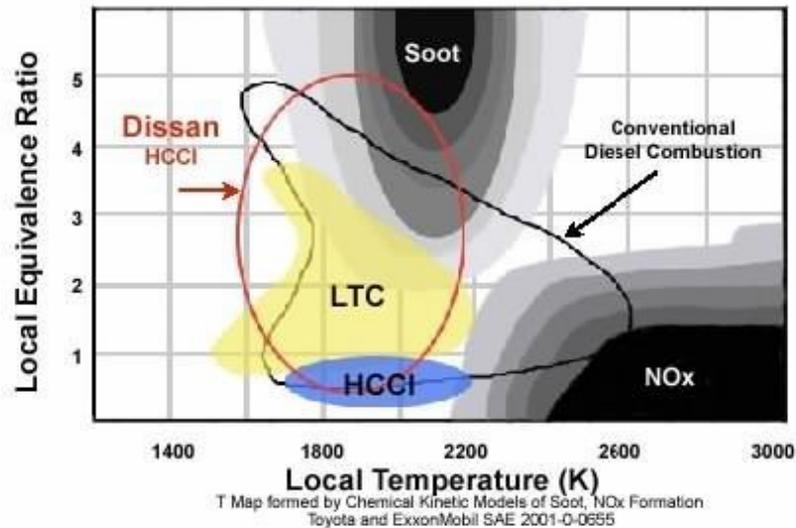
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Typical DISSAN Nozzle

## DISSAN Advantages

- Wider Fuel Cone Patterns with Finer Droplet Sizes
- Higher Mixing and Evaporation Rates
- Reduced NOx and Soot in HCCI engines using conventional diesel fuel injectors.
- Emission control inside the cylinder

The laboratory setup to prove the DISSAN concept



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