

Title (en)
DUAL FUEL MIXER-EMULSIFIER.

Title (de)
DOPPELTER BRENNSTOFFMISCHEMULGIERER.

Title (fr)
MELANGEUR-EMULSIONNEUR DE DEUX COMBUSTIBLES.

Publication
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Application
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Priority
US 8101692 W 19811217

Abstract (en)
[origin: WO8302133A1] It is desirable to utilize alcohol in conjunction with diesel fuel in a diesel engine. Herein, a mixer (24) includes a chamber (28) and an elongated flow path (30) having first (32) and second (34) end portions (32, 34). A plurality of restricted orifices (36) connect the flow path (30) with the chamber (28) at a plurality of positions along the length of the flow path (30). The mixer (24) is positioned and adapted to receive diesel fuel in a first end portion (32) of the flow path (30) and alcohol in the second end portion (34) of the flow path (30). Desired quantities of diesel fuel and alcohol are measured out into the flow path (30). Thereafter, they flow through the restricted orifices (36) under pressure and are thoroughly mixed and emulsified in the chamber (28). Uniformity of diesel fuel-alcohol flow is thereby attained during steady state operating conditions. Control of the diesel-alcohol mixing ratio and of total fuel flow are also described, both as functions of engine operating conditions.

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• [A] WO 8102687 A1 19811001 - GALLAGHER J
• [E] CA 1146825 A 19830524 - ONTARIO RESEARCH FOUNDATION
• [A] FR 2351271 A1 19771209 - HITZ HENRI [FR]

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