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# TRANSLATION

## EJECTOR SYSTEM FOR ENGINE COOLING

**By**

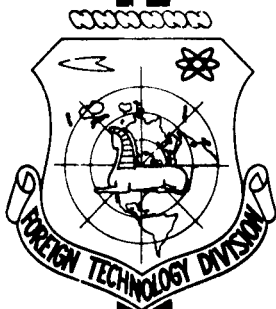
G. A. Omel'yanovich, G. F. Bondarenko,  
V. A. Popovich, et. al.

# FOREIGN TECHNOLOGY DIVISION

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## UNEDITED ROUGH DRAFT TRANSLATION

EJECTOR SYSTEM FOR ENGINE COOLING

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Popovich, et. al.

English Pages: 3

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730255/25-8, 12 May 1961), pp 1-2

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## Ejector System for Engine Cooling

by

G. A. Omel'yanovich, G. F. Bondarenko, V. A. Popovich  
and M. Ya. Baisov

Engine cooling ejector systems are known, in which a shutter is used for controlling cooling intensity, a shutter installed in the outlet of the exhaust pipe. Manual control of the shutter does not allow to maintain optimum cooling temperature, which, in turn, has a negative effect on the service life of the engine, economy of its operation and loss of power for the cooling system.

This invention is intended for the creation of conditions, at which above mentioned deficiencies of existing systems would be eliminated. This is attained by the fact, that in the cooling liquid is placed a thermo feeler, which automatically sets the gate (shutter) in a position, corresponding to optimum engine cooling intensity.

In the drawing is schematically shown the described ejector system.

Exhaust gases from the engine, flowing through nozzle 1, are discharged through pipe 2 directly into the atmosphere or through outlet 3 of the exhaust pipe to nozzles 4 of the ejector system. The gate (shutter) 5 is situated in outlet 5 of the exhaust pipe, connected by cable 6 with thermo feeler 7, situated in the cooling liquid of the engine cooling system.

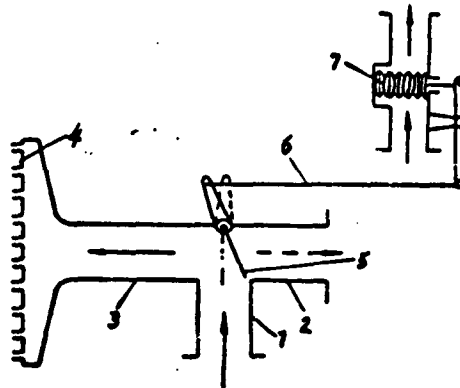
When the engine is in operation the thermo feeler automatically sets the gate

... in a position, corresponding to optimum engine cooling intensity; and so for example, at high temperature of the surrounding air and full engine load the gate fully covers pipe 2 and free exhaust of gases into the atmosphere is stopped. The exhaust gases go to the ejector system nozzles, assuring maximum cooling of the engine etc.

Such a system with automatic gate control reduces power losses for the cooling system, promotes an increase in engine service life and in the economy of its operation.

#### Object of Invention

The ejector system of engine cooling with shutter (gate) for controlling cooling intensity, installed in the outlet of exhaust pipe, distinguished by the fact, that for the purpose of reducing power losses by the cooling system, to increase service life of the engine and the economy of its operation, in the cooling liquid is placed a thermo feeler, automatically setting the gate in a position, corresponding to optimum engine cooling intensity.



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