UDC 621.43

Krainiuk A.I. A two-stage cascade pressure exchange compressor

/ A.I. Krainiuk, S.V. Alekseev, S.A. Stolyarov //

Internal combustion engines. – 2009. – №1. – P. 67-71.

A new method of organizing the working cycle of a device

for direct conversion of heat into the available air compression

work based on principle of a cascade pressure exchange

has been offered. The results of the preliminary selection

of basic dimensional and structural parameters for thermal

compressor with cascade-type pressure exchange have been

given; some special features of operation have been considered;

the main steps of improving the working cycle of thermal

compressors with cascade-type pressure exchange have been

described. Il. 5. Bibliogr. 3 names.