Krajniuk A.I. The simulation model of the supercharging system with deep air cooling / A.I. Krajniuk, S.A. Alohin,

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The new principle of the organization of working process
of the combined supercharging system of Internal Combustion
Engine with the Cascade Pressure Exchanger has been described.
It allows to raise considerably the level of
forcing of the engine by supercharging at the expense of
expansion of effective air supply area and cooling of supercharging
air to temperature below an ambient without attraction
of additional mechanical energy on refrigeration cycle

realization. Substantive postulates of combined engine's working model have been stated. Some results of calculation and experimental investigations of supercharging system of the engine 6CHN12/14 have been adduced. II.7. Bibliogr. 7 names.