

The invention relates to the electric engineering and is destined for the regulable resonance constant-to-alternating voltage conversion in the powerful and efficient voltage converters of diverse application, in particular in the cathodic protection stations, functioning at high temperatures and natural cooling.

The process for regulable resonance constant-to-alternating voltage conversion includes creation of oscillations with proper period  $T_0$  and commutation period  $T_k$ , at  $T_k > 2T_0$ , by means of the capacitive and inductive power accumulators, consuming power from a constant-voltage source, transmission of a power part to the rectifier load, return of power excess of the capacitive accumulator back into the voltage source and regulation of the load tension by modification of the commutation period  $T_k$ . At the same time, concomitantly with the creation of the first oscillations there takes place formation of the second oscillations with proper period  $T_0'$  and commutation period  $T_k$  using the same capacitive accumulator and a second inductive accumulator, consuming power from the capacitive accumulator and transmission of a power part to the rectifier load.

Claims: 1

Fig.: 14