The authors described the treatment of 36 patients with persistent tinnitus. In the past the patients were treated with other methods without positive results. After audiological examinations Promontory Stimulator (Cochlear Co.) for electrical stimulation was used. During the electrical stimulation one electrode was inserted in external auditory meatus and the other on planum mastoideum. Bursts of biphasic pulses of 0.1 ms duration were used during electrical stimulation. Electrical stimulation was applied 10 min. during 10 days. The patients estimated effects of treatment and results are presented in table. The authors obtained satisfactory results in 48% of the patients.