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(71) Applicants and

(72) Inventors: **KUNC, Vinko** [SI/SI]; Gerbiceva 50, 1000
Ljubljana (SI). **STERN, Anton** [SI/SI]; Srednja vas 34,
4208 Sencur (SI).

(74) Agent: **PATENTNA PISARNA D.O.O.**; Copova 14, POB
1725, 1001 Ljubljana (SI).

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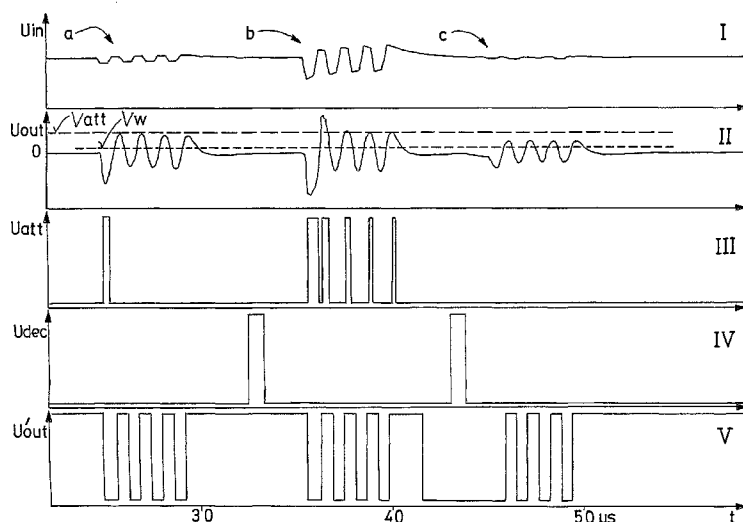
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(54) Title: METHOD OF AUTOMATICALLY SETTING THE GAIN OF AN INTERROGATOR RECEIVER WITHIN A NON-CONTACTING IDENTIFICATION SYSTEM



(57) Abstract: An attack is activated in a receiver amplifier of an interrogator whenever an amplified input signal exceeds an attack threshold voltage value V_{att} , and the receiver amplifier at least during a waiting period, the length of which preferably equals the double length of the longest time interval between adjacent pulses in a transponder data wave packet, after the end of the attack does not respond in the sense of setting the gain. However, the amplifier responds with a decay activated after the lapse of the waiting period, which started when the instantaneous amplified signal value for the last time after the end of the attack exceeded a waiting threshold voltage level V_w . The decay rate is of the same order of magnitude as the attack rate. The improved method for automatically setting the gain renders it possible that the interrogator receiver within the non-contacting identification system practically does not change the essential characteristics of the input signal.

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