Claims

1. An assembly of:

a first wireless communication element comprising:

- a first antenna configured to receive a wireless signal and output an output voltage, the wireless signal having a wireless signal frequency,
- a first circuit connected to the first antenna and being configured to, when receiving the output voltage, output an output signal to the first antenna, the first antenna being configured to output, based on the output signal, a wireless output signal having an output frequency, and

a second wireless communication element comprising:

- a second antenna configured to receive the wireless signal and output a first voltage,
- a voltage increasing element connected to the second antenna, the voltage increasing element being configured to increase the first voltage by a predetermined factor to a second voltage and output the second voltage,
- a second circuit connected to the voltage increasing element and being configured to, when receiving the second voltage, output a noise signal to the second antenna, the second antenna being configured to, on the basis of the noise signal, output a wireless noise signal having a frequency component in a frequency band of the wireless signal frequency or the output signal frequency,

wherein:

- the first circuit is configured to start outputting the output signal when the output voltage reaches a first threshold voltage,
- the second circuit is configured to start outputting the noise signal when the second voltage reaches a second threshold voltage and
- the first threshold voltage exceeds the second threshold voltage divided by the predetermined factor.

2. An assembly according to claim 1, where the voltage increasing element has a first and a second terminal both connected to the second antenna, a first, a second and a third capacitor and a first and a second diode, where:

- the second and third capacitors are connected in series between a predetermined voltage and a first conductor, the first terminal is connected between the second and third capacitors,
- the first and second diodes are connected in series between the predetermined voltage and the first conductor, the second terminal of the coil is connected between the first and second diodes, and
- the first capacitor is connected between the predetermined voltage and the first conductor, the first capacitor being configured to feed the second voltage from the first capacitor to the circuit.

3. An assembly according to claim 1, wherein the second circuit is configured to output as the noise signal a square signal and/or the noise signal comprises a number of pulses, where a width of a pulse is 3µs.

4. An assembly according to claim 1, wherein the noise signal is a periodic signal with a duty cycle of 50% or less.

5. An assembly according to claim 1, wherein:

- a frequency of the noise signal is at least 50% of a predetermined frequency, and wherein the duty cycle is at least 30% or
- a frequency of the noise signal is no more than 50% of a predetermined frequency, and wherein the duty cycle is no more than 30%.

6. An assembly according to claim 1, wherein the second wireless communication element further comprises a voltage limiting element configured to limit the second voltage to a voltage not exceeding a predetermined maximum voltage.

7. A method of operating an assembly comprising:

- a first wireless communication element comprising a first antenna and a first circuit and
- a second wireless communication element comprising a second antenna, a voltage increasing element and a second circuit,

the method comprising the steps of:

1. an emitter outputting a wireless signal,
2. the first and second antennas receiving the wireless signal and outputting an output voltage and a first voltage, respectively,
3. the voltage increasing element receiving the first voltage and outputting a second voltage, the second voltage being larger than the first voltage and
4. the first and second circuits receiving the output voltage and the second voltage, respectively, and outputting an output signal and a noise signal, respectively, to the first and second antennas respectively, the first and second antennas outputting, based on the output signal and noise signal, respectively, a wireless output signal having an output frequency and a wireless noise signal, respectively,

where the wireless noise signal has a frequency component in a frequency band of the output signal and wherein the second circuit starts outputting the noise signal before the first circuit starts outputting the output signal.

8. A method of operating an assembly comprising:

- a first wireless communication element comprising a first antenna and a first circuit, the first circuit being configured to check whether a signal received from the first antenna conforms to predetermined requirements and, only if so, to output an output signal to the first antenna and
- a second wireless communication element comprising a second antenna, a voltage increasing element and a second circuit,

the method comprising the steps of:

1. an emitter outputting a wireless signal having a wireless signal frequency,
2. the first and second antennas receiving the wireless signal and outputting an output voltage and a first voltage, respectively,
3. the voltage increasing element receiving the first voltage and outputting a second voltage, the second voltage being larger than the first voltage and
4. the first and second circuits receiving the output voltage and the second voltage, respectively,
5. the second circuit outputting a noise signal to the second antenna, without the first circuit outputting an output signal to the first antenna, so that the antenna outputs a wireless noise signal having a frequency component in a frequency band of the wireless signal.

9. A method according to claim 7, wherein the second voltage is at least 2 times the first voltage.

10. A method according to claim 7, wherein the noise signal is a square signal and/or the noise signal comprises a number of pulses, where a width of a pulse is 3μs or less.

11. A method according to claim 7, wherein the noise signal is a periodic signal with a duty cycle of 50% or less.

12. A method according to claim 7, wherein:

- a frequency of the noise signal is at least 50% of a predetermined frequency, and wherein the duty cycle is at least 30% or
- a frequency of the noise signal is no more than 50% of a predetermined frequency, and wherein the duty cycle is no more than 30%.

13. A method according to claim 7, wherein, in step 2, the output voltage is no less than 90% of the first voltage and no more than 110% of the first voltage.

14. A method according to claim 7, wherein step 4 comprises the step of limiting the second voltage to a voltage not exceeding a predetermined voltage before feeding the limited voltage to the second circuit.