

CLAIMS

1. A radio communication device comprising:
 - a plurality of light sources;
 - a state determination circuit configured to determine an operation state of the radio communication device;
 - an activation determination circuit configured to determine a respective activation state for each light source of the plurality of light sources based on the determined operation state, wherein there is an assignment between the determined operation state and activation states of the plurality of light sources; and
 - a control circuit configured to control each light source of the plurality of light sources based on the respective activation state for the light source.
2. The radio communication device of claim 1,
 - wherein the radio communication device is an ultra low power device.
3. The radio communication device of any one of claims 1 to 2,
 - wherein the radio communication device is a wearable device.
4. The radio communication device of any one of claims 1 to 3,
 - wherein the radio communication device is a wristband or is wearable to a body.
5. The radio communication device of any one of claims 1 to 4,
 - wherein the plurality of light sources comprise a plurality of multi-color light sources.
6. The radio communication device of any one of claims 1 to 5,
 - wherein the plurality of light sources comprise a plurality of light emitting diodes.

7. The radio communication device of claim 6,
wherein the plurality of light sources comprise a plurality of multi-color light emitting diodes.

8. The radio communication device of claim 7,
wherein for each light source the respective activation state comprises at least one state selected from a list of states consisting of: a deactivated state; a state of continually emitting light of a first color; a state of intermittently emitting light of a first color; a state of continually emitting light of a second color; a state of intermittently emitting light of a second color; a state of periodically emitting light of a first color and light of a second color; emitting light of a first color and light of a second color; a state of subsequently switching on at least two light sources of the plurality of light sources; a state of subsequently switching on the plurality of light sources; and a state of subsequently switching off at least two light sources of the plurality of light sources; a state of subsequently switching off the plurality of light sources.

9. The radio communication device of any one of claims 1 to 8,
wherein the operation state comprises at least one state selected from a list of states consisting of: a low battery state; a state of at least substantially one third of an original battery charge available; a state of at least substantially two thirds of the original battery charge available; a state of a substantially full battery; a state of an incoming call to the radio communication device; a state of an incoming call to a further radio communication device connected to the radio communication device; an alarm state; a state of a notification; a state of a failed connection to a further radio communication device; a state of successful connection to a further radio communication device; a state of carrying out a start-up sequence; a state of powering down; a state of updating a firmware of the radio communication device.

10. The radio communication device of any one of claims 1 to 9,

wherein the activation determination circuit is further configured to receive information indicating an assignment of operation states and pluralities of activation states.

11. The radio communication device of claim 10,
wherein the assignment is user-configurable.
12. The radio communication device of any one of claims 1 to 11,
wherein the plurality of light sources are provided on a detachable module of the radio communication device.
13. The radio communication device of any one of claims 1 to 12, further comprising:
a memory circuit configured to store data to be broadcasted;
a communication circuit configured to establish a wireless connection with a first further radio communication device; and
a transmitter configured to at least one of broadcast signals based on the stored data or transmit a signal based on the stored data to the first further radio communication device using the communication circuit;
wherein the communication circuit is configured to receive information from the first further radio communication device based on a signal broadcasted by a second further radio communication device, free from the communication circuit receiving the signal from the second further radio communication device.
14. The radio communication device of claim 13,
wherein the transmitter is configured to broadcast signals according to a pre-determined timing scheme, the pre-determined timing scheme comprising a pre-determined number of transmission in a pre-determined period of time;
the radio communication device further comprising:

a device determination circuit configured to determine whether another radio communication device is in a communication range of the radio communication device;
and

a controller configured to change the pre-determined timing scheme to increase the number of transmissions in the pre-determined period of time if the device determination circuit determines that another radio communication device is in the communication range of the radio communication device.

15. The radio communication device of claim 14,

wherein the transmitter is configured to repeatedly transmit signals at a pre-determined time interval; and

wherein the controller is configured to decrease the time interval if the device determination circuit determines that another radio communication device is in the communication range of the radio communication device.

16. A method for controlling a radio communication device comprising:

determining an operation state of the radio communication device;

determining a respective activation state for each light source of a plurality of light sources of the radio communication device based on the determined operation state, wherein there is an assignment between the determined operation state and activation states of the plurality of light sources; and

controlling each light source of the plurality of light sources based on the respective activation state for the light source.

17. The method of claim 16, further comprising:

receiving information indicating an assignment of operation states and pluralities of activation states.

18. The method of any one of claims 16 to 17, further comprising:
storing data to be broadcasted;
establishing a wireless connection with a first further radio communication device using a communication circuit;
at least one of broadcasting signals based on the stored data or transmitting a signal based on the stored data to the first further radio communication device using the communication circuit; and
receiving using the communication circuit information from the first further radio communication device based on a signal broadcasted by a second further radio communication device, free from the communication circuit receiving the signal from the second further radio communication device.
19. The method of claim 18, further comprising:
broadcasting signals according to a pre-determined timing scheme, the pre-determined timing scheme comprising a pre-determined number of transmission in a pre-determined period of time;
determining whether another radio communication device is in a communication range of the radio communication device; and
changing the pre-determined timing scheme to increase the number of transmissions in the pre-determined period of time if the device determination circuit determines that another radio communication device is in the communication range of the radio communication device.
20. The method of claim 19, further comprising:
repeatedly transmitting signals at a pre-determined time interval; and

decreasing the time interval if the device determination circuit determines that another radio communication device is in the communication range of the radio communication device.