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#### Remarks:

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### (54) DISCOVERY IN A COMMUNICATION SYSTEM

(57) Discovery of devices in a network of devices comprises assigning resources for the discovery, and providing accordingly at least two discovery patterns of transmission and reception phases for the devices in the network for communication of information between the devices. A device can transmit or receive information in accordance with a dedicated discovery pattern of transmission and reception phases allocated from a set of different discovery patterns.

0 Rx phase 1 Tx phase

k=0 0 0 0 0

0 0 1 k=1 0 1 0 0 0 0 1 0 0 1 0 0 0

0 k=2 0 1 0 1 1 0 1. 1 0 0 0 1 0 1 1 0 0 1 0 \* 1 \* 0

1 0 k=3 1 1 1 . 1 0 1 1≇ \* 1 0 1 0 1 \$ 1° 1

k=4 1 1 1 1

Fig. 5

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