



(11) **EP 2 180 755 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:  
**Corrected version no 1 (W1 A1)**  
**Corrections, see**  
**Bibliography INID code(s) 84**

(51) Int Cl.:  
**H04W 84/18 (2009.01)**

(48) Corrigendum issued on:  
**21.07.2010 Bulletin 2010/29**

(43) Date of publication:  
**28.04.2010 Bulletin 2010/17**

(21) Application number: **09173811.2**

(22) Date of filing: **22.10.2009**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR**  
**HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL**  
**PT RO SE SI SK SM TR**  
Designated Extension States:  
**AL BA RS**

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(30) Priority: **22.10.2008 IT TO20080778**

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(54) **Mobile wireless-communication network with detection and affiliation of stranger nodes, and corresponding methods of exploration and request for affiliation**

(57) A mobile wireless-communication network, formed by a plurality of nodes (1) that each present a first station (BS) and a second station (MS) equipped with transmitting/receiving means (4, 5). The network includes at least one root node (1r) with a role of network manager, a leaf node (1l), and optionally an internal node (1b) connected to the root node through a second station (MS) of its own and to the leaf node through a first station (BS) of its own. The leaf node (1l) communicates with the internal node (1b) or with the root node (1r) through its own second station, but is not connected to any of the nodes of the network (10) through its own first station. The root node (1r) can generate an activation signal (131) for activating temporarily the first station (BS) of the leaf

node (1l). The first station (BS) of the leaf node possesses emitters activated temporarily by the root node for issuing (133) an exploration signal containing at least one identification code (13) that indicates the degree of importance of the network and moreover possesses receivers activated temporarily by the root node for receiving (134) at least one signal of request for affiliation by a stranger node (SN), not belonging to the network (10), and for transmitting the signal of request for affiliation to the root node. Finally, the root node can generate a signal of acceptance (138) or refusal (140) of the request for affiliation on the basis of the signal of request for affiliation.

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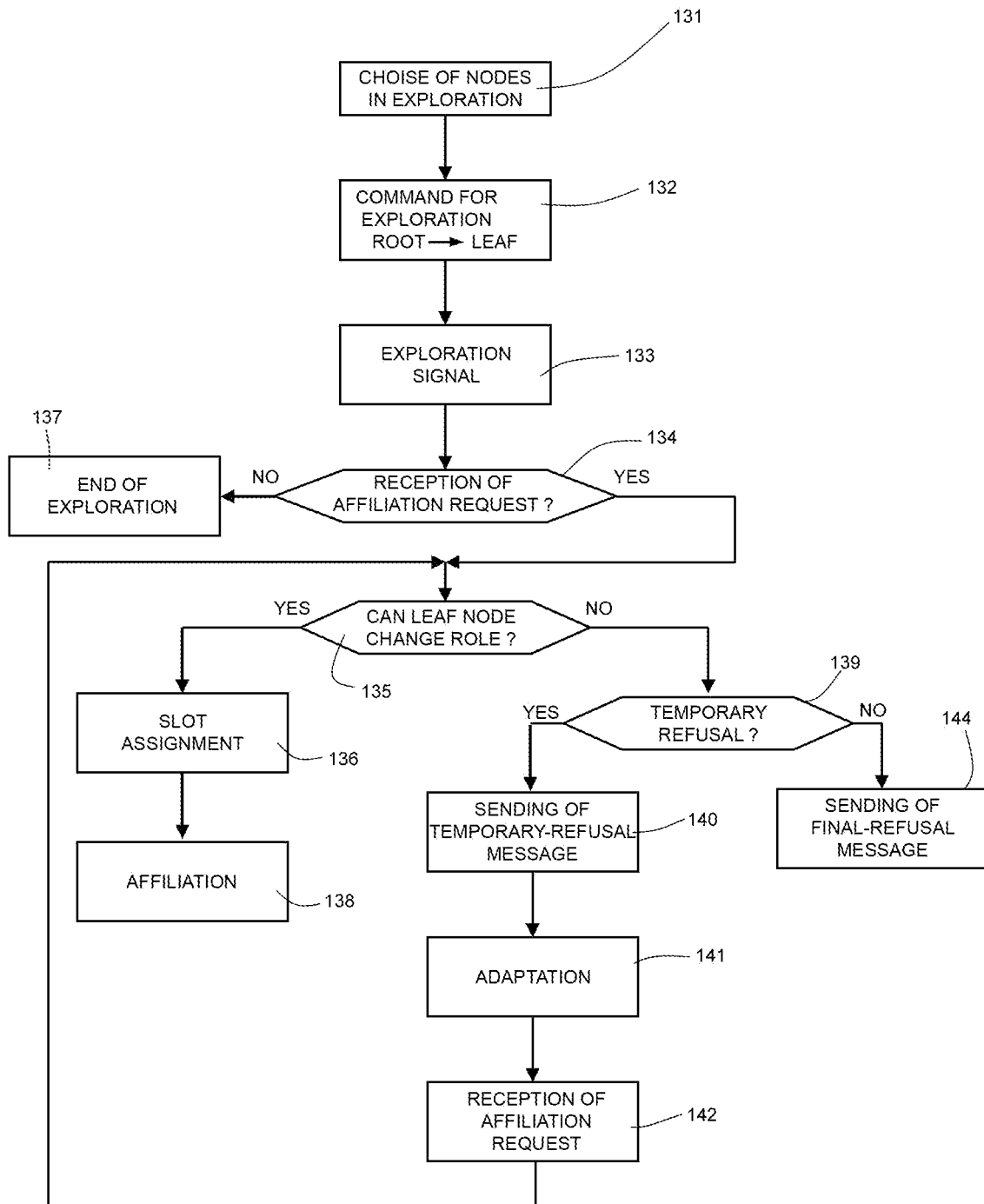


Fig.6