CLAIMS

1. An antenna arrangement ~~(10)~~ comprising:

a directional antenna assembly ~~(2), the directional antenna assembly~~ comprising a directional antenna ~~(20)~~ mounted upon~~on an interface (50) delimited by~~ a stationary support structure ~~(5)~~ through a connection base of the directional antenna, the directional antenna generally extending along a main vertical axis ~~(11)~~ perpendicular to ~~the~~ a plane defined by said stationary support structure~~interface~~, and

~~wherein the antenna arrangement (10) further comprises~~ a rotatable base ~~(3)~~ rotatably mounted ~~on~~ about said stationary support structure~~interface~~ and a pole assembly ~~(4)~~, said pole assembly comprising a pole ~~(40) integral with~~mounted on said rotatable base ~~(3)~~, said pole extending in the direction of said main axis, the rotatable ~~rotational~~ base being a base different from the connection base of the directional antenna assembly, the rotatable base surrounding the connection base of the directional antenna assembly, said rotatable base ~~(3)~~ being rotatable about the main axis ~~(11)~~, said rotatable ~~rotational~~ base ~~(3)~~ being configured to control the rotation of the pole assembly ~~(4)~~ in azimuth, about the main axis ~~(11)~~, a rotation of said rotatable base actuating and controlling the rotation of the pole ~~(40)~~ about the main axis ~~(11)~~, so as to enable relocation of the pole ~~(40)~~, outside the line-of-sight of the directional antenna ~~(20)~~, the upper end of the pole ~~(40)~~ lying above the upper point of the directional antenna assembly ~~(2)~~.

2. The antenna arrangement of claim 1, wherein the pole ~~(4)~~ is configured to rotate outside the field of view of directional antenna ~~(20)~~.

3. The antenna arrangement of claim 1 or 2, wherein said antenna arrangement comprises a rotating control unit for controlling the rotation of the pole ~~(4)~~.

4. The antenna arrangement of any one of the preceding claims, wherein the directional antenna is rotatable at least about the main axis ~~(11)~~, the rotation of the directional antenna about the main axis defining the azimuth rotation of the directional antenna.

5. The antenna arrangement of any one of the preceding claims, wherein said antenna arrangement comprises a communication antenna ~~(22)~~ mounted on the pole ~~(40)~~.

6. The antenna arrangement of claim 5, wherein the communication antenna ~~(22)~~ is selected in the group consisting of an omnidirectional antenna and a directional antenna.

7. The antenna arrangement of any claim 5 or 6, wherein the communication antenna comprises a set of elementary antennas stacked in the direction of the main axis.

8. The antenna arrangement of any one of the preceding claims, wherein the directional antenna assembly ~~(2)~~ comprises a radome ~~(6)~~ in which the directional antenna is enclosed.

9. The antenna arrangement of claim 8, wherein the base of the radome ~~(6)~~ is mounted upon the rotatable base ~~(3)~~.

10. The antenna arrangement of claim 8, wherein the base of the radome ~~(6)~~ is surrounded by the rotatable base ~~(3)~~.

11. The antenna arrangement of any one of the preceding claims, wherein said antenna arrangement comprises a lightning arrestor ~~(42)~~ arranged on the pole ~~(40)~~.

12. The antenna arrangement of claim 11 when dependent on any one of claims 5-7, wherein the lightning arrestor ~~(42)~~ is arranged above the communication antenna.

13. An antenna arrangement comprising an interface and a directional antenna assembly, the directional antenna assembly comprising a directional antenna mounted on said interface the directional antenna being configured to transmit and/or receive spatially concentrated electromagnetic radiation in one direction at a time, the directional antenna generally extending along a main vertical axis perpendicular to the plane defined by said interface, wherein the antenna arrangement further comprises a

rotatable base mounted on said interface and a pole arrangement comprising a pole integral with said rotatable base, said pole extending in the direction of said main axis, said rotatable base being rotatable about the main axis, said rotatable base being configured to control the rotation of the pole assembly in azimuth, about the main axis, a rotation of said rotatable base actuating and controlling the rotation of the pole about the main axis, so as to enable relocation of the pole, outside the line-of-sight of the directional antenna, wherein the antenna arrangement comprises a radome in which the directional antenna is enclosed and/or a lightning arrestor arranged on the pole.

~~13~~14. An antenna system ~~(100)~~ comprising an antenna arrangement according to any one of claims 1 to ~~12~~13, said support structure ~~(5)~~ being mounted on a support system ~~(12)~~, said support structure being hollow, wherein the support structure ~~(5)~~ comprises a through hole, the rotatable base ~~(3)~~ delimiting an inner passage communicatively coupled with said through hole of the support structure ~~(5)~~ and with an inner passage of the pole, the antenna arrangement comprising a cable running from a fixation point on the support system to the upper end of the pole ~~(40)~~, the cable passing through the support structure to the rotatable base via the through hole and said inner passages.

~~14~~15. The antenna system of claim ~~13~~14, wherein the cable is a conductive screened cable.

~~15~~16. The antenna system of claim ~~14~~15, wherein it comprises a connection component ~~(32)~~ to connect the rotatable base ~~(3)~~ to the support structure, said connection component ~~(32)~~ being arranged at the level of said through hole and enabling the passage of the cable.

~~16~~17. The antenna system of claim ~~15~~16, wherein the connection component ~~(32)~~ is a cable twist.

~~17~~18. The antenna system of claim ~~15~~16, wherein the connection component ~~(32)~~ is a rotary joint.

~~18~~19. The antenna arrangement of any one of claims 1 to ~~12~~13, wherein the directional antenna ~~(20)~~ is rotatable.

~~19~~20. The antenna arrangement of claim ~~18~~19, wherein the rotatable base ~~(3)~~ is mechanically slaved to the rotation of the directional antenna ~~(20)~~.