Claims

1. A carrying device, in particular a carrying device of a receiving device (2) of a system for inductive power transfer to a vehicle, comprising:
   - a carrying plate (3),
   - a first edge element (13) arranged at a first lateral edge (6) of the carrying plate (3),
   - at least another edge element (14) arranged at a second lateral edge (7) of the carrying plate (3),

   characterized in that
   the edge elements (13, 14) are slanted with respect to the carrying plate (3),
   wherein the carrying device (1) comprises magnetically conductive elements which are arranged on the upper side and/or a lateral outer side of the edge elements (13, 14) and/or on a bottom side (25) of an edge portion (9, 10) of the carrying plate (3).

2. The carrying device according to claim 1, wherein at least two edge elements (13, 14) are arranged along a lateral edge (6, 7) of the carrying plate (3), wherein consecutive edge elements (13, 14) along the lateral edge (6, 7) are spaced with a predetermined distance.

3. The carrying device according to one of the claims 1 or 2, wherein the carrying plate (3) and the edge elements (13, 14) are designed as separate pieces.

4. The carrying device according to claim 3, wherein the edge elements (13, 14) have a connecting portion (27), wherein the connecting portion (27) is designed to engage with a lateral edge portion (9, 10) of the carrying plate (13, 14).

5. The carrying device according to one of the claims 1 to 4, wherein a recess (34) is provided in a laterally outer side (35) of the edge elements (13, 14).

6. The carrying device according to one of the claims 1 to 5, wherein the carrying plate (3) comprises or provides at least one longitudinal bar (11).

7. The carrying device according to one of the claims 1 to 6, wherein a bottom side (19) of the carrying plate (3) comprises or provides at least one connecting means for connecting at least one cable and/or a cable bearing element (50) to the carrying device (1) .

8. The carrying device according to one of the claims 1 to 7, wherein at least one pillar element (17) is arranged on an upper side of the carrying plate (3).

9. The carrying device according to claim 8, wherein the at least one pillar element (17) comprises or provides at least one connecting means.

10. The carrying device according to one of the claims 8 to 9, wherein the carrying plate (3) and the pillar element (17) are designed as separate pieces.

11. The carrying device according to one of the claims 1 to 10, wherein the carrying plate (3) and/or the edge elements (13, 14) are made of non-magnetic material.

12. The carrying device according to claim 11, wherein the non-magnetic material is fibre-reinforced.

13. The carrying device according to one of the claims 1 to 12, wherein the carrying plate and/or the edge elements are made of electrically non-conducting or insulating material.

14. The carrying device according to one of the claims 1 to 13, wherein the carrying plate and/or the edge elements are made of a thermally conductive material and/or a material with a predetermined thermal capacity.

15. The carrying device according to one of the claims 1 to 14, wherein the carrying plate and/or the edge elements comprise at least one cooling means.

16. A receiving device, in particular a receiving device (2) of a system for inductive power transfer to a vehicle, comprising:
    - a carrying device (1) according to one of the claims 1 to 15,
    - a top cover element (32),

    wherein the carrying device (1) is attached to the top cover element (32).

17. The receiving device according to claim 16, wherein the receiving device (2) further comprises another carrying plate (47), wherein at least one electric and/or electronic element is arranged on the other carrying plate (47), wherein the other carrying plate (47)

is arranged between the carrying plate (3) and the top cover element (32).

18. The receiving device according to one of the claims 16 to 17, wherein the receiving device (2) further comprises a cable bearing element (50), wherein the cable bearing element (50) is attached to a bottom side (19) of the carrying plate (3).

19. The receiving device according to one of the claims 16 to 18, wherein the receiving device (2) further comprises a bottom cover element (55), wherein the bottom cover element (55) is attached to the top cover element (32).

20. A method of manufacturing a carrying device, in particular a carrying device (1) of a receiving device (2) of a system for inductive power transfer to a vehicle, comprising the steps of:
    - providing a carrying plate (3),
    - arranging a first edge element (13) at a first lateral edge (6) of the carrying plate (3),
    - arranging at least another edge element (14) at a second lateral edge (7) of the carrying plate (3),

    characterized in that

    the edge elements (13, 14) are arranged slanted with respect to the carrying plate (3), wherein the carrying device (1) comprises magnetically conductive elements which are arranged on the upper side and/or a lateral outer side of the edge elements (13, 14) and/or on a bottom side (25) of an edge portion (9, 10) of the carrying plate (3).

21. A method of manufacturing a receiving device, in particular a receiving device (2) of a system for inductive power transfer to a vehicle, comprising the steps of:
    - providing a carrying device (1) according to one of the claims 1 to 15,
    - providing a top cover element (32),
    - attaching the carrying device (2) to the top cover element (32).