Claims

1. A method for handover of a plurality of parcels to several recipients and/or for receipt of parcels from several depositors, the method comprising:

determining a joint optimized handover point for handover of parcels to the respective recipients and/or depositors within a specific handover period for a plurality of parcels from a multiplicity of possible handover points spatially separated from one another, taking into account at least one effort parameter of at least one respective recipient and/or at least one respective depositor;

determining the joint optimized handover point by a selection from the multiplicity of possible spatially separated handover points with at least one selection step, the selection step taking into account effort parameters for the recipients and/or the depositors for which at least one effort parameter for the respective recipients and/or depositors is decreased during a handover period for the parcels;

determining the joint optimized handover points by an optimization procedure from a plurality of possible locations for depot facilities for the parcels for the handover of the parcels to the recipients;

performing the optimisation procedure separately for different handover periods, so that for a first handover period, on a first day, at least partially different joint optimized handover points result than for another handover period on another day;

wherein at least a part of the depot facilities is designed as a mobile depot facility for storage and provision of a plurality of parcels within a planned handover period at one location as a joint optimized handover point for the handover of the plurality of parcels to the respective recipients and/or by depositors of the plurality of parcels,

transferring parcels planned for handover within the handover period to the depot facilities before the handover periods; and

wherein the handover to the recipients and/or from the depositors takes place at the assigned joint optimized handover point within the planned handover period.

2. The method according to claim 1, wherein above 80% of the parcels for handover at the joint optimized handover points is carried out so that a respective effort parameter does not exceed a predefined limit.

3. The method according to claim 1, wherein for as many recipients and/or depositors of the parcels as possible, for the handovers within the respective planned handover period, a sum of additional time requirements for additional routes from "anyway-routes" and/or "anyway-locations" to the joint optimized handover point is limited by the effort parameter taking these time requirements into account.

4. The method according to claim 1, wherein the joint optimized handover point is selected not only by including the effort parameter for the respective recipient/depositor, but also by including effort parameters for other recipients/depositors.

5. The method according to claim 1, wherein for the selection of the joint optimized handover point for at least a part of the recipients and/or depositors, one or more locations indicated by the recipient and/or depositor for the handover of at least one parcel and/or one or more routes indicated by the recipient and/or depositor are taken into account.

6. The method according to claim 1, wherein predicted locations and/or routes of the recipients/depositors, which are taken into account for the selection of the joint optimized handover point for at least some of the recipients and/or depositors are determined by a self-learning system.

7. The method according to claim 6, wherein the selection of the joint optimized handover point and the handover to the respective recipient and/or the handover by the respective depositors, where several of the recipients and/or depositors have different locations and/or travel different routes in a first and a second handover period, is carried out taking into account a route between the specified locations which has been communicated in advance by the recipient and/or the depositor or is estimated by a route algorithm.

8. The method according to claim 1, wherein the handover period is shorter than one day, allowing a daily or intraday optimisation of the handover points.

9. The method according to claim 1, wherein the determination of the joint optimized handover point is carried out as a multi-stage process with several selection steps and in that at least one other selection step, taking into account at least one suitability parameter, is carried out before a selection step, which takes into account effort parameters for the recipients and/or the depositors, and in that at least one further selection step is carried out.

10. The method according to claim 1, comprising a control component that controls the optimisation procedure.

11. The method according to claim 9, wherein at least one of the further selection steps takes into account effort of an operator of the logistics system to provide a depot facility at the respective locations.

12. A method according to claim 1, wherein the depot facility is provided at the joint optimized handover point for joint storage of the multiple parcels and for handover of the multiple parcels to the respective recipients of the multiple parcels and/or for deposit by the respective depositors of the multiple parcels at the associated joint optimized handover point within the planned handover period.

13. The method according to claim 1, wherein additional local logistics are provided at the depot facility so that, in addition to the parcels planned for handover at the joint handover points, goods can be deposited to the depot facility, stored and handed over as parcels.

14. The method according to claim 1, wherein a parcel identification code is assigned and/or recorded for as many parcels as possible and is subsequently stored as a primary parcel identification characteristic, that at least one secondary parcel identification characteristic different from the primary parcel identification characteristic is assigned to the parcel, and that at least one processing operation of the parcel is carried out on the basis of the secondary parcel identification characteristic.

15. The method according to claim 14, wherein a primary parcel identification characteristic is checked by a readable data carrier of a shipper connected to the parcel, and that the primary parcel identification characteristic is taken into account in at least one processing operation of the parcel.

16. The method according to claim 14, wherein at least one of the following properties of a parcel is captured as a secondary parcel identification characteristic and is taken into account when carrying out at least one processing operation:

- Weight of the parcel;
- Dimensions of the parcel;
- Shape of the parcel;
- Shipper identification characteristics;

- Picture of the parcel;
- Colour of the parcel;
- Data contents of a readable data carrier;
- Information about one or more completed processing operations; or
- Spectroscopic response of the parcel.

17. The method according to claim 14, wherein a deposit of a parcel by a depositor includes at least one of:

- Capture of at least one of the parcel identification characteristics, if necessary also by a user component;
- Handover of the parcel to a handover unit and/or a handover gate;
- Transport of the parcel to the depot facility; or
- Transport of the parcel into a storage position of a storage unit of the depot facility.

18. The method according to claim 14, wherein after the parcel identification code or other parcel identification characteristics which permit a unique/reliable identification of a parcel have been established and/or captured, a controlled and/or measured transport route and/or sorting route of the parcel is planned and/or tracked, so that a subsequent processing operation of the parcel, on the basis of a combination of the previously determined parcel identification code and/or parcel identification characteristic with a determination of another secondary parcel identification characteristic - is carried out as precisely as is the case with a determination of the parcel identification code itself.

19. A depot facility, comprising:

a mobile depot facility for storage and provision of a plurality of parcels within a planned handover period at one location as a joint optimized handover point for handover of the plurality of parcels to the respective recipients and/or by depositors of the plurality of parcels;

an assignment system in communication with the mobile depot facility, the assignment system assigning parcel identification characteristics to the storage positions; and

at least one transport unit being moveable along a transport path located in the depot facility, the transport unit being set up such that it can support the removal of parcels from a parcels shipment flow, in particular on the basis of parcel identi-

fication characteristics, the transport unit transporting the parcels from the parcels shipment flow into storage positions of the depot facility, wherein the transport of the parcels by the transport units within the depot facility can be controlled taking into account the storage positions assigned to the respective parcels on the basis of the parcel identification characteristics.

20. The depot facility of claim 19, wherein the transport of parcels from the assigned storage positions in the depot facility to a handover gate is done on the basis of parcel identification characteristics.

21. The depot facility of claim 19, wherein the depot facility has at least one handover gate for handovers of parcels at joint handover points and at least one handover unit for handovers at individual handover points different from the joint handover points.

22. The depot facility according to claim 19, wherein the at least one transport unit can be moved outside the depot facility.

23. The depot facility according to claim 21, wherein the handover gate is adapted to hand over parcels to recipients and/or to receive parcels from a depositor.

24. The depot facility according to claim 19, wherein the transport unit autonomously carries out a transport as a handover unit from a location of the depot facility to the individual handover point for the individual recipient and/or for the individual depositor and carries out the delivery of the parcel to the recipient and/or the acceptance of the parcel from the depositor at the individual handover point.

25. The depot facility according to claim 19, wherein the depot facility stores and provisions a plurality of parcels and has at least two different loading modes and/or at least two different unloading modes.

26. The depot facility of claim 25, wherein, in a first loading mode, an uninterrupted path is formed between an environment of the depot facility and an interior of the depot facility.

27. The depot facility of claim 25, wherein, in a second loading mode an individual storage of a parcel takes place using a handover gate.

28. The depot facility of claim 25, wherein, in a first unloading mode, an uninterrupted path is formed between an interior space of the depot facility and an environment of the depot facility.

29. The depot facility of claim 25, wherein, in a second unloading mode an individual handover of a parcel to a recipient takes place using the handover gate.

30. A system for handover of a large number of parcels to a plurality of recipients and/or for receipt of a large number of parcels from a plurality of depositors, comprising:

a depot facility for carrying out a procedure for handover of a plurality of parcels to a plurality of recipients and/or for acceptance of a plurality of parcels from a plurality of depositors, wherein in each case for a plurality of parcels a joint optimized handover point for handover to the respective recipients and/or for acceptance from the depositors within a specific handover period can be determined from a plurality of possible handover points spatially separated from one another, taking into account at least one effort parameter, and wherein the handover to the recipients and the acceptance from the depositors can take place at the assigned joint optimized handover point within the planned handover period;

a distribution centre that transfers the parcels to a transfer facility; and

a control component that controls the transfer facility to carry out the transport of the parcels in accordance with control instructions from the control component, the parcels being transported in the area of the transfer facility as individual parcels by transport units.

31. The system according to claim 30, comprising a plurality of depot facilities, at least some of the depot facilities being designed as mobile depot facilities, and wherein the control component controls a transport of the mobile depot facilities from the transfer facility to installation locations as joint optimized handover points for the handover of the parcels.

32. A system according to claim 30, comprising:

a component that selects a joint optimized handover point from the plurality of possible handover points for handover to the respective recipients and/or for receipt from the respective depositors within the planned handover period, and wherein the

depot facility performs handover to the recipient and/or receipt from the respective depositors at the joint optimized handover point within the planned handover period.

33. The system according to claim 30, wherein, in addition to the parcels planned for handover at the joint handover points, goods and/or objects can be deposited to, stored at and handed over as parcels at the depot facility.

34. The system according to claim 33, wherein at least a part of the goods and/or objects can be handed out at the depot facility where they were deposited as parcels.

35. The system according to claim 30, comprising:

a component that captures a plurality of potential locations; for mobile depot facilities and

an assignment component that assigns the mobile depot facilities to the joint optimized handover points.

36. The system according to claim 35, comprising:

a component that controls the transfer facilities to operate the transfer units so the parcels planned for handover at a handover point are transported into the mobile depot facility assigned to the handover point.

37. The system according to claim 35, comprising:

a component that transmits geographical information on the joint optimized handover points to the depot facility; and/or

a component that transports the depot facility, so that a transport of the depot facility to the joint optimized handover points can take place taking into account the geographical information.

38. The system according to claim 30, comprising:

a control component that forwards information on parcel identification characteristics to the transfer facility so that the parcels can be stored in the storage positions of the storage units of the depot facilities on the basis of the parcel identification characteristics.

39. The system according to claim 30, wherein the transport units of the transfer facility support storage of the parcels in storage positions of storage facilities of the depot facilities.

40. The system according to claim 30, comprising:

a control component that forwards information on parcel identification characteristics to the transfer facility so that the parcels can be stored in the storage positions of the storage units of the depot facilities on the basis of the parcel identification characteristics.