Claims

1. Fixing device for fixing an interchangeable container in or on the pick-up area of a vehicle with at least one support structure positioned in the pick-up area, with at least one pick-up floor positioned in the pick-up area, with the interchangeable container is configured to be fixed in place relative to the support structure, with at least one rail-style guide element spaced from the pick-up floor which is fixed to the support structure or the interchangeable container and which has a guide surface and with at least support aid positioned on the interchangeable container or on the support structure which is positioned between the guide element and the pick-up floor when transferring the interchangeable container into the pick-up area or out of the pick-up area, and the interchangeable container can at least be partially slid onto or rolled off touching the guide surface of the guide element and can be or is supported against transverse movement to the direction of transfer,
characterised by the fact that at least the guide surface of the at least one guide element has an incline in relation to the pick-up floor.

2. Fixing device according to claim 1, characterised by at least one adjustment unit, with which the incline of the guide surface of the guide element can be adjusted in stages or infinitely in relation to pick-up floor.

3. Fixing device according to claim 1 or 2, characterised by at least one clamping unit which includes at least one clamping element with which the guide element can be clamped in the direction to the support element and/or with which the support element can be clamped in the direction to the guide element.

4. Fixing device according to at least one of the previous claims, characterised by the fact that the guide element and the support structure or, that the guide element and interchangeable container are temporarily or permanently fixable or fixed to one another or include a joint component and/or that the support aid and support structure or that the support aid and interchangeable container are temporarily or permanently fixable or are fixed to one another or include a joint component.

5. Fixing device according to at least one of the previous claims, characterised by the fact that the guide element and the supporting element are positioned at the height of one of the surfaces of the interchangeable container facing one of the pick-up floors, with a minimal distance to the pick-up floor.

6. Fixing device according to at least one of the previous claims, that the support aid includes at least one support element which can at least be partially slid or rolled off the touching the guide surface of the guide element and in particular includes a runner or castor and/or the support aid includes at least one load-bearing element with which the support aid can be fixed to the interchangeable container or support structure and to which one end of the support element can be positioned.

7. Fixing device according to at least one of the previous claims, characterised by the fact that the at least one guide element is positioned on the support structure of the pick-up area and/or that at least one support element is positioned on the interchangeable container.

8. Fixing device according to at least one of the previous claims, characterised by at least two guide elements and at least two support aids, which are positioned respectively opposite one another and that the interchangeable container is positioned between both guide elements and support aids.

9. Fixing device according to one of the claims 6 to 8, characterised by the fact that the support aid includes at least two support elements which are positioned on opposite sides of the load-bearing element and that it is stretched across the width of the interchangeable container - when observed transverse to the direction of transfer.

10. Fixing device according to claim 8 or 9, characterised by a centring unit which includes the at least two guide elements which combined incorporate a funnel-shaped section through which the interchangeable container is essentially positioned centrally in the pick-up area during transfer on or in the pick-up area.

11. Fixing device according to at least one of the previous claims, characterised by at least one retaining element attached to the support structure or the interchangeable container, which fits into a pick-up device on the interchangeable container or the support structure and fixes the interchangeable container against movement in the transfer direction, can be transferred into a release position in which the interchangeable container is released for movement in the direction of transfer.

12. Fixing device according to claim 11, characterised by the fact that the retaining element has a pin-style shape and can be transferred from the locked position into the release position and back transverse to the transfer direction.

13. Fixing device according to claim 11 or 12, characterised by the fact that the retaining element is positioned on the pick-up floor of the pick-up area and can be transferred transverse to the direction of transfer of the locked position to the release position and back and/or if the retaining element includes at least one reset device through which the retaining element can be pre-clamped in the locked position.

14. Fixing device according to one of the claims 11 to 13, characterised by the fact that the pick-up device includes a contour tapering in the transfer direction, on which the retaining element fits into the locked position.

15. Vehicle with a pick-up area in which an interchangeable container can be fixed by a fixing device according to one of the claims 1 to 14,
which is fixed to at least one support structure positioned in the pick-up area,
which at least one pick-up floor positioned in the pick-up area, with the interchangeable container is configured to be fixed in place relative to the support structure, which the at least one guide element spaced to the pick-up floor , which is fixed to the support structure or the interchangeable container and which has a guide surface and which includes at least one support aid positioned on the interchangeable container or on the support structure which is positioned between the guide element and the pick-up floor when transferring the interchangeable container into the pick-up area or out of the pick-

up area, and the interchangeable container can at least be partially slid onto or rolled off touching the guide surface of the guide element and can be or is supported against transverse movement to the direction of transfer, whereby at least the guide surface of at least one guide element has an incline in relation to the pick-up floor.