CLAIMS

1. A side protector (3) for ceiling formwork (2), in which the formwork (2) comprises at least one formwork element (4) having a frame (5), in which the side protector (3) has the following:

(a) a railing (11);

(b) a pivoting frame (10) to which the railing (11) is connected and which is indirectly connected to the frame (5) from the bottom side of the ceiling formwork (3), in which the pivoting frame (10) can be pivoted from an installation position into an end position about an axis of rotation (A) in such a way that the ceiling formwork (2) is laterally secured by the railing (11) and the pivoting frame (10) is pivotably connected to a mounting rail (9) about the axis of rotation (A), the mounting rail (9) being connected to the frame (5) and in the installed state, the mounting rail having a horizontal alignment or orientation.

2. A side protector according to Claim 1, characterized in that the pivoting frame (10) comprises a pivoting base frame (14) and a pivoting flap (15), the pivoting flap (15) being pivotably connected to the pivoting base frame (14) about an axis of rotation (B).

3. A side protector according to Claim 2, characterized in that the pivoting base frame (14) has two longitudinal members (16), the two longitudinal members (16) being connected to each other via a plurality of crossbeams (19) and/or transverse connectors (21).

4. A side protector according to Claim 3, characterized in that each of the two longitudinal members (16) has a through-hole (13), a pin (20) being arranged in the through-hole (13) that extends through each of the two longitudinal members (16) and projects from the longitudinal members (16) on both sides, or a spacer support piece being provided at each free end of the longitudinal members (16) that has the pin (20) in the region of each free end.

5. A side protector according to Claim 2, 3 or 4, characterized in that the pivoting flap (15) has two side parts (22) that are connected to each other via at least one additional crossmember (23), each of the two side parts (22) having in its edge area a step (24) for bearing on the top side of the formwork element (4).

6. A side protector according to Claim 5, characterized in that at least one coupling element (25) is arranged on the at least one additional crossmember (23), in which a locking

element (26) for engaging behind one of the plurality of crossmembers (19) is articulated at the coupling element (25) about an axis of rotation (C).

7. A side protector according to any preceding claim, characterized in that the mounting rail (9) is designed as a beam (31) on which two pairs of mounting brackets (32) and/or a securing flap (33) is arranged.

8. A side protector according to Claim 7 in conjunction with Claim 4, characterized in that each of the mounting brackets (32) has at their ends away from the beam (31) a first notch (34) for receiving the pin (20).

9. A side protector according to Claim 7 or 8, characterized in that the securing flap (33) has an abutment element (37) and/or a securing lever (38) pivotably connected to the beam (31) for fastening the mounting rail (9) on the frame (5).

10. A side protector according to Claim 8 or 9, characterized in that the mounting brackets (32) of the beam (31) each form an additional notch (35) for engaging behind a projection (36) of the frame (5).

11. A side protector according to Claim 9 or Claim 10 as dependent on Claim 9, characterized in that the abutment element (37) of the beam (31) each form an additional notch (35) for engaging behind a projection (36) of the frame (5).

12. A ceiling formwork system (100) having at least one side protector (3) according to any preceding claim and a ceiling formwork (2), the at least one side protector (3) being installed on the ceiling formwork (2).

13. A method for erecting a side protector (3) for a ceiling formwork (2) according to any of Claims 1 to 10, the ceiling formwork (2) comprising at least one formwork element (4) having a frame (5) with the following process steps:

connection of the pivoting frame (10) to the frame (5), indirectly;

connection of the railing (11) to the pivoting frame (10);

swinging the pivoting frame (10) up from an installation position into an end position about an axis of rotation (A)—which is provided in an embodiment according to Claim 4 in the free end area of the spacer support pieces—in such a way that the ceiling formwork (2) is laterally secured by the railing (11).

14. A method for erecting a side protector (3) for a ceiling formwork (2) according to Claim 13, characterized in that the pivoting frame (10) is pivotably installed on the mounting rail (9), which is attached on the bottom side of a formwork element (4) or on the bottom side of a directly adjacent formwork element (4) if the latter relates to the side protector (3) for a transverse side of a formwork element (4) that terminates a ceiling formwork (4) in a delimiting manner.

15. A method for erecting a side protector (3) for a ceiling formwork (2) according to Claim 13, characterized in that the pivoting frame (10) is pivotably installed on the mounting rail (4), which is fastened to the bottom side of a formwork element (4) or to the bottom side of a formwork element (4) that is spaced apart from a formwork element (4) which borders a ceiling formwork (2) with the interposition of an additional formwork element (4) if it involves the side protector (3) for a longitudinal side of a formwork element (4).