CLAIMS

1. Soil-displacement drill (1) for soil-displacing drilling in a surface (10) in order to form a foundation pile (2), comprising

   - a drill pipe (3);

   - a drill head (4) which is attached to one end of the drill pipe (3) and comprises several flap leaves (5) which are arranged so as to be pivotable between a closed position for closing off the end of the drill pipe (3) and an open position for at least partly making the end of the drill pipe (3) freely accessible;

   characterized in that the soil-displacement drill (1) comprises one or several closing elements (6) which are attachable to the outside of the flap leaves (5) in order to keep these flap leaves (5) in their closed position and to prevent the flap leaves (5) from pivoting and which are configured to fail during drilling of the soil-displacement drill (1) into the surface (10) in such a way that these closing elements (6) do not impede pivoting of the flap leaves (5).

2. Soil-displacement drill (1) according to Claim 1, characterized in that the soil-displacement drill (1) comprises only one said closing element (6) which is configured to keep all flap leaves (5) in their closed position.

3. Soil-displacement drill (1) according to Claim 2, characterized in that the closing element (6) is at least partly annular.

4. Soil-displacement drill (1) according to one of the preceding claims, characterized in that each closing element (6) comprises one or several weakened sections in order to cause this closing element (6) to fail more quickly during drilling.

5. Soil-displacement drill (1) according to Claim 4, characterized in that each closing element (6) comprises one or several recesses (18) to form the said weakened sections.

6. Soil-displacement drill (1) according to one of the preceding claims, characterized in that each closing element (6) comprises one or several engagement elements (19) in order for the surface (10) to engage thereon while drilling the soil-displacement drill (1) into the surface (10) in order to accelerate the failing of this closing element (6).

7. Soil-displacement drill (1) according to Claims 3, 5 and 6, characterized in that the closing element (6) comprises an annular base body (17) and in that the one or several said engagement elements (19) are raised with respect to this base body (17) and delimit the one or several recesses (18).

8. Soil-displacement drill (1) according to one of the preceding claims, characterized in that the soil-displacement drill (1) comprises a drill tip (7) which is attachable to or forms part of the flap leaves (5), away from the end of the drill pipe (3).

9. Soil-displacement drill (1) according to Claim 8, characterized in that each flap leaf (5) comprises a drill tip part (8), wherein these drill tip parts (8) together form the drill tip (7) in the closed position of the flap leaves (5).

10. Soil-displacement drill (1) according to Claim 8, characterized in that the drill tip (7) comprises a cylindrical base body (20), over which the annular part of the closing element (6) is arrangeable in order to attach the closing element (6) to the flap leaves (5).

11. Soil-displacement drill (1) according to one of the preceding claims, characterized in that the soil-displacement drill (1) comprises one or several cams (22) which are

provided at the end of the drill pipe (3) or on an annular wall section of the drill head (4), and in that each flap leaf (5) comprises at least one corresponding recess (23), so that the flap leaves (5) are arranged on the one or several cams (22) in a secured manner in their closed position.

12. Soil-displacement drill (1) according to Claim 11, characterized in that every two mutually adjoining flap leaves (5) are secured on the same said cam (22) in their closed position at the location where they adjoin.

13. Assembly of a drill head (4) for a soil-displacement drill (1) for soil- displacing drilling in a surface (10) and one or several closing elements (6), wherein the drill head (4) comprises several flap leaves (5) which are arranged so as to be able to pivot between a closed position and an open position and wherein the one or several closing elements (6) are attachable to the outside of at least two flap leaves (5) in order to keep these flap leaves (5) in their closed position and to prevent the flap leaves (5) from pivoting and are configured to fail during drilling of the soil-displacement drill (1) into the surface (10) in such a manner that these closing elements (6) do not impede pivoting of the flap leaves (5).

14. Method for converting a soil-displacement drill for soil-displacing drilling in a surface (10) in order to form a foundation pile (2), which comprises a drill pipe (3) and comprises a drill head, which is attached to one end of the drill pipe (3), wherein the drill head of the drill pipe (3) is removed and a new drill head (4) is attached to the end of the drill pipe (3) which comprises several flap leaves (5) which are arranged so as to be able to pivot between a closed position for closing off the end of the drill pipe (3) and an open position for at least partly making the end of the drill pipe (3) freely accessible, characterized in that the soil-displacement drill (1) is provided with one or

several closing elements (6) which are attachable to the outside of at least two of said flap leaves (5) in order to keep these flap leaves (5) in their closed position and to prevent the flap leaves (5) from pivoting and which are configured to fail during drilling of the soil-displacement drill (1) into the surface (10) in such a way that these closing elements (6) do not impede pivoting of the flap leaves (5).

15. Method for forming a foundation pile (2) by means of a soil-displacement drill (1) which comprises a drill pipe (3) and a drill head (4) which is attached to an end of the drill pipe (3) and comprises several flap leaves (5) which are arranged so as to be able to pivot between a closed position for closing off the end of the drill pipe (3) and an open position for at least partly making the end of the drill pipe (3) freely accessible, wherein the drill (1) with the flap leaves (5) in their closed position is arranged on a surface (10), wherein the drill (1) is drilled into the surface (10), wherein material for forming the foundation pile (2) is arranged in the drill pipe (3) and wherein the drill pipe (3) is pulled up with the flap leaves (5) in their open position, characterized in that the flap leaves (5) are taken to their closed position and one or several closing elements (6) are attached on the outside of the flap leaves (5) in order to keep the flap leaves (5) in their closed position and to prevent the flap leaves (5) from pivoting, while the drill (1) is arranged at a distance from the surface (10), after which the drill (1) is lowered in order to arrange it on the surface (10), and in that the one or several closing elements (6) are configured to fail in such a way during drilling of the drill (1) into the surface (10) that these closing elements (6) do not impede pivoting of the flap leaves (5).