CLAIMS

1. Kelly bar arrangement for a drilling apparatus, in particular an earth drilling apparatus comprising a tubular outer Kelly bar, which is designed for bearing on a drill drive and for receiving a drilling torque of the drill drive, and
an inner Kelly bar, which is displaceably supported inside the outer Kelly bar and has a rope suspension, wherein the drilling torque can be transmitted between the outer Kelly bar and the inner Kelly bar,
in that on the inner Kelly bar at least one line is arranged,
wherein
in a lower or upper end region of the inner Kelly bar a rotary feedthrough with a first attachment section and a second attachment section is arranged, wherein the first attachment section is connected in a torque-proof manner to the rotationally drivable inner Kelly bar and forms a line connection to the at least one line of the inner Kelly bar and the second attachment section is connected to a supply line which is stationary relative to the rotationally drivable inner Kelly bar,
wherein
on the rotary feedthrough a rotary means is arranged for actively rotating the two attachment sections relative to each other.

2. Kelly bar arrangement according to claim 1,
wherein
the rotary feedthrough is arranged on the inner Kelly bar below the rope suspension.

3. Kelly bar arrangement according to claim 1,
wherein
the rotary means has at least a drive motor for actively rotating the second attachment section relative to the first attachment section.

4. Kelly bar arrangement according to claim 3,
wherein
the drive motor is arranged on the second attachment section which lies above the first attachment section.

5. Kelly bar arrangement according to claim 3,
wherein
the drive motor is an electric motor or a hydraulic motor.

6. Kelly bar arrangement according to claim 1,
wherein
the rope suspension has a rope swivel.

7. Kelly bar arrangement according to claim 1,
wherein
as a line an axial hollow space of the inner Kelly bar is provided which is designed for passing a fluid through.

8. Kelly bar arrangement according to claim 1,
wherein
as a line on the inner Kelly bar a cable is provided which is designed for conducting electricity and/or data.

9. Drilling apparatus, in particular earth drilling apparatus, with a drill drive,
wherein
a Kelly bar arrangement according to claim 1 is arranged.

10. Drilling apparatus according to claim 9,
wherein
a control is provided for the rotary means and

a rotation detector is provided for determining a rotational speed and/or a direction of rotation at least of the inner Kelly bar, which is in signal connection with the control.

11. Drilling apparatus according to claim 10,
wherein
the rotary means is driven in a controlled manner by the control such that the second attachment section of the rotary feedthrough is driven and synchronized in a diametrically opposed manner to a rotating motion of the inner Kelly bar.

12. Method for working the ground with a drilling apparatus according to claim 9, in which a Kelly bar arrangement is set into rotating motion by means of a drill drive, wherein on an inner Kelly bar of the Kelly bar arrangement a ground working tool is mounted which works a ground,
wherein
a rotary means is provided for actively rotating the second attachment section relative to the first attachment section, wherein the second attachment section is operated in a diametrically opposed manner to a rotating motion of the inner Kelly bar.

13. Method according to claim 12,
wherein
the rotary means is operated depending on a rotational speed of the inner Kelly bar or the drill drive.