

MIXING TOOL FOR TREATING A PORTION OF SOIL

A B S T R A C T

5 A device (10) for treating a portion of soil
comprises a rotary shaft (20), at least one deployable
mixer tool (40) secured to the rotary shaft (20), and a
longitudinal pipe (22) for injecting a fluid in the
proximity of the mixer tool (40). According to the
10 invention, the treatment device (10) further includes a
boring tool (24) situated at the bottom end of the shaft
(20), an outer tubular element (30) extending parallel to
the rotary shaft (20), the rotary shaft (20) being
arranged inside said tubular element (30), and a coupling
15 system (50) between the rotary shaft (20) and the tubular
element (30). In a first configuration, the coupling
system (50) is suitable for constraining the tubular
element (30) and the rotary shaft (20) to move together
in rotation about the main axis (X), in at least one
20 direction of rotation, and for constraining the tubular
element (30) and the rotary shaft (20) to move together
in translation along the main axis (X), at least in the
downstream direction. These movements in rotation and
translation can be released in a second configuration of
25 the coupling system (50).

Figure 1