Title of Invention: DRILLING SYSTEM AND DRILLING METHOD

ABSTRACT

Provided is a drilling system and drilling method capable of further improving workability to efficiently drill a vertical hole in hard ground. Insertion guides 12G are provided in a protruding fashion on the lower side of a sleeve body 12 so as to be spaced in the circumferential direction. A hammer rod 5a over which a weight 8 and a sleeve body 12 are inserted is moved downward to mount the sleeve body 12 suspended from the weight 8 onto mount portions 2c provided in a protruding fashion on the inner side of the casing 1 so as to be spaced in the circumferential direction. Upper wedge pieces 13a moved downward along with the weight 8 press the liners 14 against the inner peripheral surface of the casing 1 via lower wedge pieces 13b. The casing 1 and the hammer 3 are rotationally driven together by a rotationally driving apparatus 17. A vertical striking force is applied to a hammer 3 with air supplied through a hose 10 held by a hose holder 16 so as to be movable in the longitudinal direction. The wedge pieces 13a and 13b are isolated from an external space by wedge piece covers 13c.

[Figure 15]