

METHOD AND APPARATUS FOR PILE DRIVING

ABSTRACT

A method for pile-driving and apparatus therefor, which can improve driving efficiency. A lower end of steel pile 11 is provided a nozzle 26 for compressed water. High pressure pump 36 is connected to the nozzle 26 for supply of compressed water W. Likewise, the lower end of steel pile 11 is provided another nozzle 27 for compressed air. Air compressor 40 is connected to the nozzle 27 for supply of compressed air A. The compressed water W is jetted from the nozzle 26, thus forming excavation hole 41 below the lower end of steel pile 11. When compressed air A is injected from the nozzle 27, gravels 42 are vertically rocked during the rise of the compressed air A in a form of foam "a". Thus, the foam "a" allows the gravels 42 to be stirred to generate pores among gravels 42. As a result, the lower end of steel pile 11 can be driven by applying relatively a small force thereto.

FIGURE 5