

ABSTRACT

SOIL IMPROVEMENT METHOD

The present invention provides a soil improvement method, in which strength of soil is increased by supplying a grout material such as air cement milk and a foaming material from ground into the soil and polluted ground is purified by supplying fresh air or fresh water. The soil improvement method includes a step of extending perforated pipe (3a) from a ground surface (1a) into soil (1b), the grout material such as the air cement milk and the foaming material being supplied to the soil (1b) through the perforated pipe (3a); a step of reducing a pressure in a peripheral area in the soil (1b) while pumping groundwater near the soil (1b) by a super well point method in which at least two wells (2) are provided with a predetermined interval in the soil (1b), thereby putting the soil (1b) into a substantially vacuum state; a step of supplying the grout material through the perforated pipe (3a) extended from the ground surface (1a) into the soil (1b) or a step of repeating supply of air or fresh water; and a step of recharging groundwater into the soil (1b) to a natural groundwater level.

Fig. 2