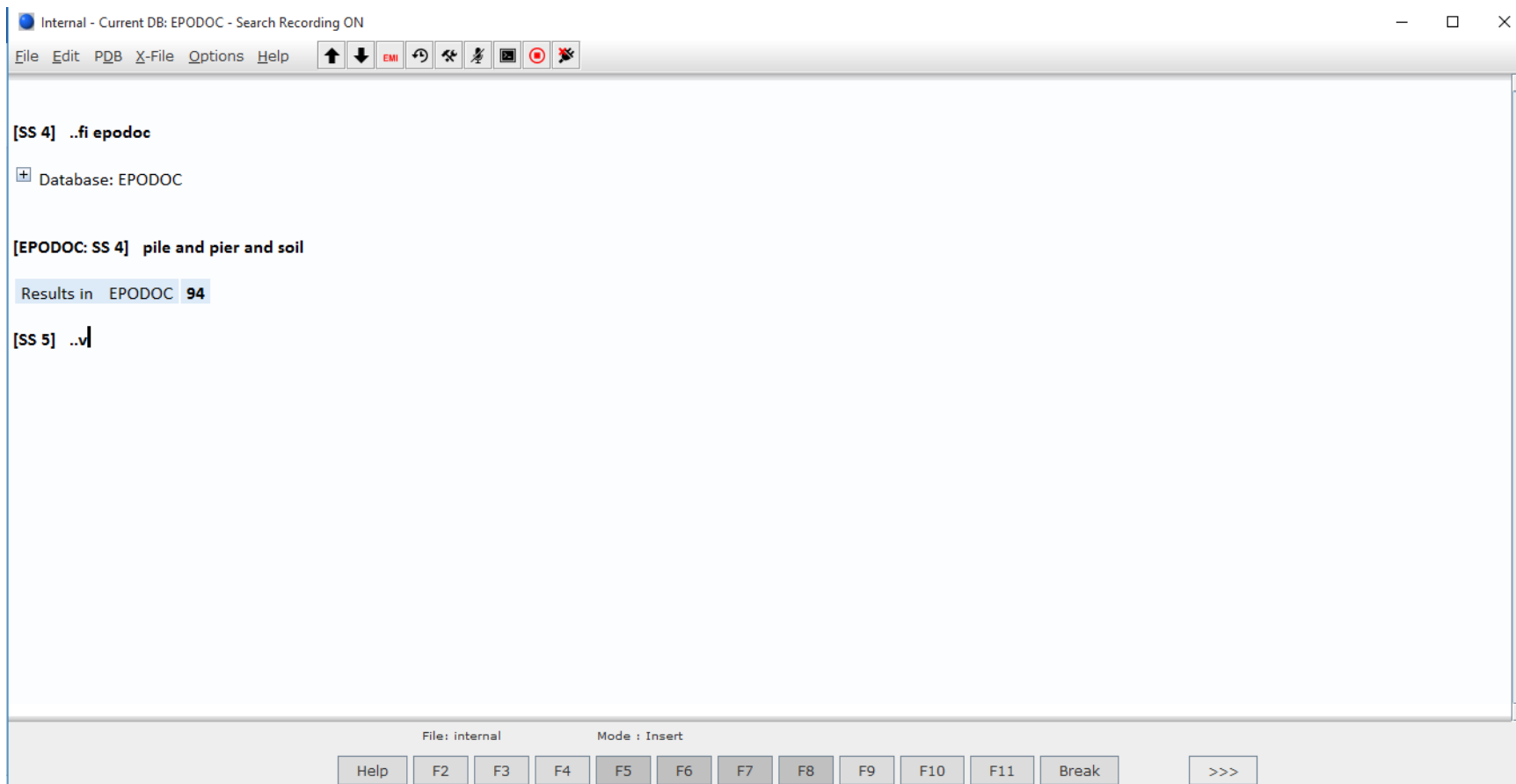




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PN - CN103074899 A 20130501

PNFP - CN103074899B B 20141224

TI - (A B)

Subdepot pier-type foundation pit support structure and construction method

AB - (A)

The invention discloses a subdepot pier-type foundation pit support structure and a construction method; the structure comprises soil-retaining and water-stopping row piles, piers and waist beams; at least two piers are arranged; the piers and the soil-retaining and water-stopping row piles are connected through the waist beams; the soil-retaining and water-stopping row piles comprise soil-retaining piles and water-stopping piles which are lined vertically and ring beams which are arranged on the tops of the soil-retaining piles and the water-stopping piles; each pier comprises a pier pile, a pier cover beam and an inclined support; the piers are lined vertically; the pier cover beams are arranged on the tops of the pier piles to connect all the pier piles; one ends of the pier cover beams are connected with the waist beams; each pier pile comprises an upper pier pile which is arranged at the upper part and a lower pier pile which is arranged at the lower part; and one ends of the inclined supports are connected with the waist beams, and the other ends of the inclined supports are connected with the upper pier piles. According to the subdepot pier-type foundation pit support structure and the construction method, the support in a foundation pit is eliminated, the excavation is convenient and the construction speed is high.

PA - (A B)

ZHOU WENSONG

IN - (A B)

ZHOU WENSONG; WEI HAI

CT - || STSE (A)

CN202559361U U 20121128 [Y] (UNIV SOUTHEAST)

[Y] 1-5

0000[0009]-[0018]0,001

000000001457.1 20090828 [A] /KOLON CONSTRUCTION CO.,LTD. (KR)

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Fig 2/2

CN 103074899 A 说明书附图 2/2页

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PN - US2007286685 A1 20071213
PNFP - US7748932 B2 20100706
TI - (A1 B2)
Soil Stabilization And Anchorage System
AB - (A1 B2)
This invention relates to a system and method for use in stabilizing different types of soils and/or creating anchorage and more particularly, to a system and method for injecting various types of solidifying material into a subsurface through a drilling apparatus during the drilling operation. The drilling apparatus may be removable and reusable used to create a micro or mini pile for soil stabilization, or alternatively it can be left in place to be used in conjunction with grout and similar materials for forming an anchor or load carry pier. A solidifying material swivel, a drive connector and a drilling apparatus, in combination are attached to a power drive unit. In one preferred embodiment, the drilling apparatus remains within the soil subsurface, encased in solidifying material. In another preferred embodiment, the drilling apparatus is removed leaving a homogenous pile of solidifying material behind.

CCI - E02D5/801
UC - 405/232; 405/233; 405/233; 405/240; 405/241
PA - (A1)
PREC PIER USA INC [US]
IN - (A1 B2)
LINDSEY RUSSELL [US]
CT - || STSE (B2)
US3999391 A 19761228 [] (MEREDITH JOHN A)
US5066168 A 19911119 [] (HOLDEMAN MAYNARD L [US])
US5122013 A 19920616 [] (JUNSHENG ZHANG [CN], et al)
US5256004 A 19931026 [] (GEMMI BRUNO [IT], et al)
US5417522 A 19950523 [] (KONO IKUO [US], et al)
US5458209 A 19951017 [] (HAYES LEW [CA], et al)
US5542786 A 19960806 [] (BLUM KENNETH J [US])
US5660730 A 19961001 [] (KUNITA MITSUHIKO [JP])

US2007286685 US7748932

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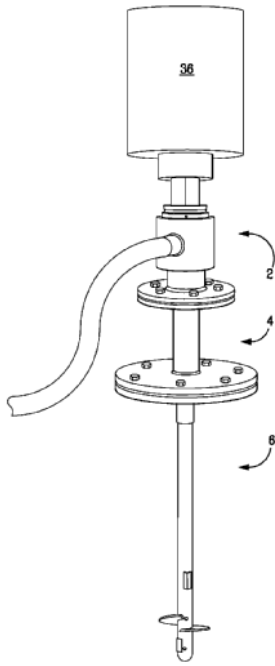
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PN - JP2005290871 A 20051020

PNFP - JP4336828B B2 20090930

TI - (A)

FOUNDATION STRUCTURE

AB - (A)

PROBLEM TO BE SOLVED: To provide an inexpensive newly-constructed foundation structure which can surely prevent wastewater from percolating into a load-bearing layer, and which can enhance the whole earthquake-resistant performance.

- SOLUTION: In a newly constructed bridge pier 10, a newly constructed footing 11 is borne on heads 12b of a plurality of newly constructed piles 12 whose leading ends 12a are sequentially driven in from a burying soil layer 5 as an uppermost layer to a waste layer 6, an impervious layer 7 and the load bearing layer 8 as a lowermost layer. In the foundation structure, a square tube-shaped steel sheet pile wall 13 is provided in the ground at least in the upper section of the impervious layer 7 from the burying soil layer 5 around the footing 11, and cement-mixed soil 14 is infilled into a space wherein at least waste 6' of the waste layer 6 in the wall 13 is completely excavated.

- COPYRIGHT: (C)2006,JPO&NCIPI

- E02D27/12&Z; E02D27/32&A; E02D27/34&A; E02D3/00&101

FT - 2D043/CA01; 2D043/EA06; 2D043/EB06; 2D046/CA01; 2D046/DA03; 2D046/DA11

PA - (A)

SHIOI YUKITAKE; FUDO CONSTRUCTION CO; NITTO CONSTRUCTION; SHIRAIISHI CORP

IN - (A)

SHIOI YUKITAKE; NOZU MITSUO; YAMAGISHI KIYOTAKA; KOBAYASHI HIROYUKI

AP - JP20040108187 20040331

PR - JP20040108187 20040331

DT - ||

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