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(54) Title: CONCRETE VARIABLE CROSS-SECTION PREFABRICATED SQUARE PILE

(54) 发明名称: 混凝土变截面预制方桩

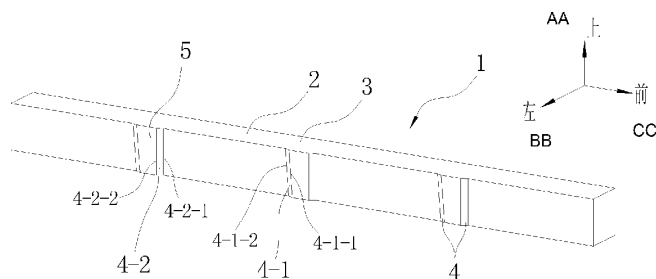


图 1

AA UP
BB LEFT
CC FRONT

(57) Abstract: A concrete variable cross-section prefabricated square pile, comprising pile bodies of large cross-section sections and small cross-section sections alternately arranged along a longitudinal direction. Lateral transition surfaces are formed between side surfaces of the large cross-section sections and adjacent small cross-section sections; at least part of the lateral transition surfaces have a front edge and/or a rear edge that are offset from a vertical direction in a lateral projection, and a vertical projection of an intersection line between the lateral transition surface and a first horizontal plane is located outside a vertical projection of an intersection line between the lateral transition surface and a second horizontal plane; the first horizontal plane is a horizontal plane located above in any two horizontal planes, and the second horizontal plane is a horizontal plane located below in any two horizontal planes; one or both side surfaces of the small cross-section section are perpendicular to the bottom surface of the small cross-section section or are laterally inclined by a set angle. According to the prefabricated pile, the phenomenon that the middle section is easy to damage can be avoided, the breakage rate of the variable cross-section prefabricated square pile is reduced, and the product quality of the variable cross-section prefabricated square pile is more stable and reliable.

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CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU,
IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT,
RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI,
CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

本国际公布：

— 包括国际检索报告(条约第21条(3))。

(57) 摘要：一种混凝土变截面预制桩，包括沿纵向交替排列有大截面段和小截面段的桩体；所述大截面段与相邻的所述小截面段的侧表面之间形成有侧向过渡面；至少部分数量的所述侧向过渡面具有在侧向投影上偏离竖直方向的前边沿和/或后边沿，且该侧向过渡面与第一水平面的相交线的垂向投影位于该侧向过渡面与第二水平面的相交线的垂向投影的外侧；所述第一水平面为任意两个水平面中位于上方的水平面，所述第二水平面为任意两个水平面中位于下方的水平面，所述小截面段的一个或两个侧表面垂直于所述小截面段的底面或者侧倾斜设定角度。该预制桩可以减少中间段容易损坏的现象，降低变截面预制方桩的破损率，使变截面预制方桩的产品质量更加稳定可靠。