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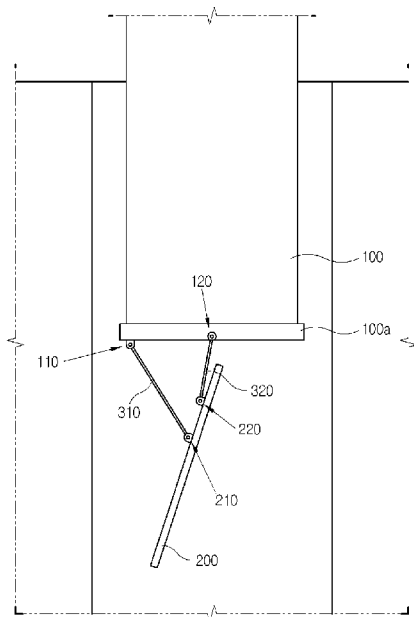
공개:

- 국제조사보고서 없이 공개하며 보고서 접수 후 이를 별도 공개함 (규칙 48.2(g))

(54) Title: PILE HAVING A LOWER END THAT IS OPENABLE/SHUTTABLE BY A HINGE

(54) 발명의 명칭: 힌지를 이용한 하단 개폐형 말뚝

[Fig. 1]



(57) Abstract: The present invention relates to a pile, comprising: a tubular pile body (100); an open/shut plate (200) arranged so as to open/shut a lower opening of the pile body (100); a central main body hinge portion (110) arranged at the front end of the outer bottom of the pile body (100); a central connection member (310), one end of which is connected to the central main body hinge portion (110); a central open/shut plate hinge portion (210) to which the other end of the central connection member (310) is connected, and which is arranged deep inside the open/shut plate (200); a pair of side main body hinge portions (120) formed at either end sides of the outer bottom of the pile body (100); a pair of side connection members (320), one end of each of which is connected to the side main body hinge portions (120), respectively; and a pair of open/shut plate hinge portions (220) to which the other ends of the pair of side connection members (320) are connected, and which are formed farther than the central open/shut plate hinge portion (210) of the open/shut plate (200). The open/shut plate (200) opens/shuts by means of the hinged operation of the central connection member (310) and the pair of side connection members (320). Thus, the end-bearing capacity of the pile can be fully ensured (that is, the lower end of the pile is reliably immobilized) even when a pre-boring and partial driving construction method is applied, to thereby achieve a stable foundation structure and reduce construction costs.

(57) 요약서:

[다음 쪽 계속]