

Title (en)
STEEL PIPE PILE

Title (de)
STAHLROHRSTAPEL

Title (fr)
PIEU TUBULAIRE EN ACIER

Publication
EP 4101986 A1 20221214 (EN)

Application
EP 21750285 A 20210205

Priority
• JP 2020019449 A 20200207
• JP 2021004344 W 20210205

Abstract (en)
An object is to provide a steel pipe pile having multiple steps of blades and capable of most effectively exerting a supporting force. Another object is to provide a steel pipe pile that has blades with optimum thicknesses and/or fixture strengths and that can be manufactured with reduced costs. An open-end steel pipe pile 1 includes a pile body 3 composed of a steel pipe with an outer diameter of $\phi 800$ mm or less and a plurality steps of blades 5 fixed by welding to the pile body 3 to project from an outer periphery of the pile body 3, and a relationship of $10 \leq h_{k</sub>}/w_{k</sub>} \leq 30$ (where k is an integer of 1 or more) is satisfied, where k is an integer of 1 or more, $w_{k</sub>}$ is a projecting length of a $(k+1)^{th</sup>}$ blade of the plurality steps of blades counted from bottom, and $h_{k</sub>}$ is an interval between the $(k+1)^{th</sup>}$ blade and another one of the plurality steps of blades that is downwardly adjacent to the $(k+1)^{th</sup>}$.

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