

Title (en)

CONNECTED WALL STRUCTURE CONSISTING OF STEEL PIPE SHEET PILES AND STEEL SHEET PILE, AND METHOD OF CONSTRUCTING SAME

Title (de)

VERBUNDENE WANDSTRUKTUR AUS STAHLROHRPFILERN SOWIE STAHLROHRPFILER UND VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

STRUCTURE DE PAROI RELIÉE CONSTITUÉE DE PALPLANCHES À PIEUX TUBULAIRES ET PALFEUILLE, ET PROCÉDÉ DE CONSTRUCTION ASSOCIÉ

Publication

EP 2554751 A1 20130206 (EN)

Application

EP 11765249 A 20110112

Priority

- JP 2010084944 A 20100401
- JP 2011050312 W 20110112

Abstract (en)

Abstract: Provided are a connected wall structure consisting of steel pipe sheet piles and a steel sheet pile and a method of constructing the same, such that there is formed a connected structure wherein a certain degree of construction errors is made allowable, with the result that there is provided a rational connected structure which is excellent in constructability and allows for the reduction in construction cost. In order that steel pipe sheet piles 1 installed by being driven with a gap therebetween will be connected together by a steel sheet pile 2 for the purpose of forming a connected wall structure, there are provided on the sides of the steel pipe sheet piles 1, connecting members 3 having slits 3a continuously extending in the longitudinal direction. The ends of the steel pile 2 are fitted into the slits 3a from the longitudinal direction. Predetermined play u for absorbing construction errors between the steel pipe sheet piles 1 is provided in the connecting sections. Since spaces sufficient to absorb construction errors are provided in the connecting sections for the steel pipe sheet piles and the steel sheet pile, the ends of the steel sheet pile may be easily fitted and installed even if the steel pipe sheet piles undergo elongation or shrinkage due to driving.

IPC 8 full level

E02D 5/08 (2006.01)

CPC (source: CN EP)

E02B 3/066 (2013.01 - CN EP); **E02D 5/08** (2013.01 - CN EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 2554751 A1 20130206; EP 2554751 A4 20170111; CN 102713074 A 20121003; CN 102713074 B 20150325; CN 104404915 A 20150311; CN 104404915 B 20160120; HK 1171483 A1 20130328; JP 4998646 B2 20120815; JP WO2011125347 A1 20130708; MY 164688 A 20180130; TW 201139792 A 20111116; TW I448608 B 20140811; WO 2011125347 A1 20111013

DOCDB simple family (application)

EP 11765249 A 20110112; CN 201180005274 A 20110112; CN 201410602239 A 20110112; HK 12112254 A 20121128; JP 2011050312 W 20110112; JP 2011545518 A 20110112; MY PI2012700454 A 20110112; TW 100104403 A 20110210