

Title (en)
STEEL WALL

Title (de)
STAHLWAND

Title (fr)
PAROI EN ACIER

Publication
EP 2848739 A1 20150318 (EN)

Application
EP 12875924 A 20120501

Priority
JP 2012061574 W 20120501

Abstract (en)
To provide an easily constructible steel wall having a wall body in which steel sheet piles capable of easily providing a high water stopping performance are coupled, and reinforced by a steel pipe or an H-shaped steel. The wall body 4 is provided by coupling the plurality of hat-shaped steel sheet piles 1 by a joint. The steel pipe 2, which reinforces the wall body 4, is provided being arranged along a longitudinal direction of the wall body 4. A space is provided between the wall body 4 and the steel pipe 2. The wall body 4 is formed into a corrugated shape in which a projection and a recess are repeated in a longitudinal direction as a steel sheet pile wall. The steel pipe 2 is disposed such that a part thereof is being entered into a recessed portion of the wall body 4. A head portion of the wall body 4 is coupled to a head portion of the steel pipe 2. The wall body 4 and the steel pipe 2 are coupled by concrete. Load transmission is performed between the wall body 4 and the steel pipe 2. Accordingly, the steel wall 3 may have a structure in which an acting earth pressure and water pressure are received and shared by the wall body 4 and the steel pipe 2.

IPC 8 full level
E02D 5/04 (2006.01); **E02B 3/06** (2006.01); **E02D 5/28** (2006.01)

CPC (source: CN EP)
E02B 3/066 (2013.01 - CN); **E02D 5/04** (2013.01 - CN EP); **E02D 5/285** (2013.01 - EP); **E02B 3/066** (2013.01 - EP)

Cited by
JP2017089144A

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2848739 A1 20150318; **EP 2848739 A4 20160413**; CN 104271841 A 20150107; CN 108330952 A 20180727; HK 1203580 A1 20151030; IN 8915DEN2014 A 20150522; JP 6015751 B2 20161026; JP WO2013164885 A1 20151224; SG 11201407027Y A 20141230; WO 2013164885 A1 20131107

DOCDB simple family (application)
EP 12875924 A 20120501; CN 201280072877 A 20120501; CN 201810196043 A 20120501; HK 15104183 A 20150430; IN 8915DEN2014 A 20141024; JP 2012061574 W 20120501; JP 2014513324 A 20120501; SG 11201407027Y A 20120501