

Title (en)  
UNSYMMETRICAL STEEL SHEET PILE AND METHOD FOR MANUFACTURING THE SAME

Title (de)  
ASYMETRISCHE STAHLBOHLE UND VERFAHREN ZU DEREN HERSTELLUNG

Title (fr)  
PALPLANCHE METALLIQUE ASYMETRIQUE, ET SON PROCEDE DE FABRICATION

Publication  
**EP 0795649 B1 20040324 (EN)**

Application  
**EP 96931991 A 19960926**

Priority  
• JP 9602775 W 19960926  
• JP 25327595 A 19950929  
• JP 28619895 A 19951102  
• JP 16476196 A 19960625

Abstract (en)  
[origin: WO9713039A1] An unsymmetrical steel sheet pile and a method for manufacturing the same in which good joint shapes can be obtained without forming any convex portion by making a joint portion of a sheet pile wall become flush with a flat arm portion, while in forming a joint bend neither unstable rolling posture nor incomplete joint is provided, and a corner steel sheet pile and a method for manufacturing the same, both being used for the unsymmetrical steel sheet pile and a method for manufacturing the same. One of unsymmetrical joints has a turned-up shape, while the other has a turned-down shape, and in forming left and right joint bends rolls with different passes are used on respective sides for finishing the bends. During this process, while the formation of one of the joint bends is being finished, the other joint is only restrained in the pass with bend formation not carried out at all or carried out halfway. The corner steel sheet pile is manufactured by inverting either the inward joint portion of the above unsymmetrical steel sheet pile or the outward joint portion thereof. In another method, it is possible to manufacture it by inwardly bending either of the joints.

IPC 1-7  
**E02D 5/08**; **B21B 1/08**

IPC 8 full level  
**B21B 1/08** (2006.01); **E02D 5/04** (2006.01)

CPC (source: EP KR)  
**B21B 1/08** (2013.01 - KR); **B21B 1/082** (2013.01 - EP); **E02D 5/04** (2013.01 - EP KR); **E02D 2600/20** (2013.01 - KR)

Cited by  
KR20130060346A; US6282762B1; US8556543B2; WO2016056883A1

Designated contracting state (EPC)  
DE FR GB LU NL

DOCDB simple family (publication)  
**WO 9713039 A1 19970410**; AU 695771 B2 19980820; AU 7095396 A 19970428; CN 1088486 C 20020731; CN 1172517 A 19980204; DE 69631950 D1 20040429; DE 69631950 T2 20050210; EP 0795649 A1 19970917; EP 0795649 A4 20000426; EP 0795649 B1 20040324; KR 100322317 B1 20020624; KR 980700494 A 19980330; MY 120907 A 20051230; TW 320573 B 19971121

DOCDB simple family (application)  
**JP 9602775 W 19960926**; AU 7095396 A 19960926; CN 96191138 A 19960926; DE 69631950 T 19960926; EP 96931991 A 19960926; KR 19970703571 A 19970528; MY PI9604017 A 19960927; TW 85111968 A 19961001