

Title (en)  
TRANSFER APPARATUS

Title (de)  
ÜBERTRAGUNGSVORRICHTUNG

Title (fr)  
APPAREIL DE TRANSFERT

Publication  
**EP 2841627 A4 20160518 (EN)**

Application  
**EP 13781516 A 20130419**

Priority  
• FI 20125439 A 20120423  
• FI 2013050438 W 20130419

Abstract (en)  
[origin: WO2013160542A1] The present invention concerns a transfer apparatus (1) configured to lift and lower anode plates (2) and cathode plates (3) moved to a position above an electrolytic cell (4), to place the anode and cathode plates into the electrolytic cell and to remove the anode and cathode plates from the electrolytic cell. Each anode hook (10) is configured and dimensioned to be insertable into a spacing between the anode plate (2) and the cathode plate (3) residing in the electrolysis cell at a first side of each anode plate to be grabbed and lifted. The apparatus comprises a plurality of counterpart members (16) which are fixedly attached to the grab device (8). Each counterpart member is arranged in pair and co-operation with an anode hook (10), and each counterpart member (16) is configured and dimensioned to be insertable into a spacing between the anode plate and the cathode plate residing in the electrolysis cell at the second side of said anode plate to be grabbed and lifted so that the hanging lug of said anode plate to be grabbed and lifted is between said pair of the anode hook and the counterpart member. The counterpart member (16) comprises a slot (17) into which a part of the transversal member (16) is receivable when the anode hook is turned to the grabbing position (II).

IPC 8 full level  
**C25C 7/06** (2006.01); **B66C 1/22** (2006.01); **B66C 13/08** (2006.01); **C25B 15/00** (2006.01)

CPC (source: EP FI)  
**B66C 1/22** (2013.01 - FI); **B66C 13/08** (2013.01 - FI); **C25B 15/00** (2013.01 - FI); **C25C 7/06** (2013.01 - EP FI)

Citation (search report)  
• [A] JP H09249986 A 19970922 - NIKKO KINZOKU KK & JP 3164285 B2 20010508  
• See references of WO 2013160542A1

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)  
**WO 2013160542 A1 20131031**; CN 104246019 A 20141224; CN 104246019 B 20160921; EP 2841627 A1 20150304; EP 2841627 A4 20160518; EP 2841627 B1 20170531; FI 124617 B 20141114; FI 20125439 A 20131024

DOCDB simple family (application)  
**FI 2013050438 W 20130419**; CN 201380021356 A 20130419; EP 13781516 A 20130419; FI 20125439 A 20120423