

Title (en)  
LINK FOR AN EXCAVATING CHAIN, AND ASSOCIATED EXCAVATING CHAIN

Title (de)  
GLIED FÜR EINE RÄUMKETTE, UND ZUGEHÖRIGE RÄUMKETTE

Title (fr)  
MAILLON POUR UNE CHAÎNE D'EXCAVATION ET CHAÎNE D'EXCAVATION ASSOCIÉE

Publication  
**EP 4045714 C0 20230830 (FR)**

Application  
**EP 20788828 A 20201014**

Priority  
• FR 1911422 A 20191014  
• EP 2020078943 W 20201014

Abstract (en)  
[origin: CA3153816A1] Disclosed is a link (100) for a removal chain (8) for a ballast removal device (4) below a railway track (2), the link (100) comprising a member (101) that extends longitudinally between a front end (110) and a rear end (120) and is penetrated by at least one front through-hole (111) and a rear through-hole (121), said through-holes being designed to receive means hinging the link (100) to an adjacent link of the chain (8), the front through-hole (111) and the rear through-hole (121) extending along mutually parallel axes that are located in a reference plane (P) of the member (101), the link (100) further comprising an inner side (100B) of the member (101) with respect to the reference plane (P), the inner side (100B) lying opposite the outer side (100A), a concave guide surface (150) extending along an envelope (155) having an axis generatrix (G) running parallel to the axes of the hinge points (A1, A2) of the link, the guide surface (150) being designed to at least locally match a curvature (C) of a return member (40) of the removal device (4).

IPC 8 full level  
**E01B 27/04** (2006.01); **E02F 3/08** (2006.01); **E02F 3/10** (2006.01); **E02F 3/14** (2006.01); **E02F 9/28** (2006.01); **E21C 25/28** (2006.01); **E21C 25/34** (2006.01)

CPC (source: CN EP US)  
**E01B 27/00** (2013.01 - CN); **E01B 27/04** (2013.01 - EP US); **E02F 3/082** (2013.01 - EP); **E02F 3/088** (2013.01 - EP); **E02F 3/10** (2013.01 - EP); **E02F 3/143** (2013.01 - EP US); **E02F 9/2866** (2013.01 - EP); **E01B 2203/02** (2013.01 - CN); **E01B 2203/024** (2013.01 - US); **E02F 3/082** (2013.01 - US); **E02F 9/28** (2013.01 - US)

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

Participating member state (EPC – UP)  
AT BE BG DE DK EE FI FR IT LT LU LV MT NL PT SE SI

DOCDB simple family (publication)  
**FR 3101891 A1 20210416**; **FR 3101891 B1 20211008**; AU 2020367381 A1 20220428; BR 112022006995 A2 20220705; CA 3153816 A1 20210422; CN 114599836 A 20220607; EP 4045714 A1 20220824; EP 4045714 B1 20230830; EP 4045714 C0 20230830; ES 2962628 T3 20240320; PL 4045714 T3 20231204; US 2023243108 A1 20230803; WO 2021074242 A1 20210422

DOCDB simple family (application)  
**FR 1911422 A 20191014**; AU 2020367381 A 20201014; BR 112022006995 A 20201014; CA 3153816 A 20201014; CN 202080071970 A 20201014; EP 2020078943 W 20201014; EP 20788828 A 20201014; ES 20788828 T 20201014; PL 20788828 T 20201014; US 202017754805 A 20201014