

Title (en)  
CONSTRUCTION OF THE SEGMENTAL FENCE AND METHOD OF ITS ASSEMBLY

Title (de)  
ZAUNKONSTRUKTION UND MONTAGEVERFAHREN

Title (fr)  
CLÔTURE ET PROCÉDÉE DE CONSTRUCTION DE LADITE CLÔTURE

Publication  
**EP 3940174 A1 20220119 (EN)**

Application  
**EP 21180339 A 20210618**

Priority  
LT 2020531 A 20200619

Abstract (en)  
The present invention discloses a system and a method of assembling a fence segment of a profiled sheet material (e.g., sheet metal). The fence segment (1) consists of a set of horizontal crossbars (4) made of profiled sheet metal, the folding cross-sectional shape of which is optional. In addition, the fence segment (1) comprises connecting elements (5) for securing the rigid horizontal crossbars (4) between two vertical trough-shaped profiles (6) attached to the vertical poles (3) of the fence. Horizontal crossbars (4) can have different shapes of the sheet metal profile, selected according to the desired fence design and functionality (visibility, sunlight transmission, etc.). The assembled fence segment (1) is resistant to climatic and mechanical effects, such as sudden changes in temperature, humidity, or wind. The method of assembling and disassembling the fence segments is efficient and simple, it does not require special tools and skills during assembly, and the assembly process can be performed by one person.

IPC 8 full level  
**E04H 17/14** (2006.01)

CPC (source: EP)  
**E04H 17/1452** (2021.01); **E04H 17/1456** (2021.01)

Citation (applicant)  
• US 3195864 A 19650720 - CASE JOHN S  
• KR 101910532 B1 20181022 - LEE SUNG JAE [KR]  
• US 7090201 B2 20060815 - BRUCKER JOHN J [US]  
• US 2018058092 A1 20180301 - PARISIEN HARVEY [CA]  
• US 2007221901 A1 20070927 - SALZER UWE [DE], et al

Citation (search report)  
• [A] EP 1655428 B1 20100728 - AGORESPACE [FR]  
• [A] FR 2651523 A1 19910308 - CECEGE STE CIVILE RECH [FR]  
• [A] US 9347191 B2 20160524 - KEMPER STEVEN L [US], et al  
• [A] EP 3399123 B1 20191204 - ZHEJIANG YOTRIO GROUP CO LTD [CN]  
• [A] US 5702090 A 19971230 - EDGMAN THOMAS J [US]

Cited by  
CN114396200A; CN115680373A; CN115653392A; PL444075A1

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 3940174 A1 20220119**; **EP 3940174 B1 20230329**; LT 2020531 A 20210412; LT 6822 B 20210610; PL 3940174 T3 20230911

DOCDB simple family (application)  
**EP 21180339 A 20210618**; LT 2020531 A 20200619; PL 21180339 T 20210618