

Title (en)

STRUCTURAL MEMBER USED FOR RAINWATER STORAGE LAMINATED STRUCTURE

Title (de)

BAUTEIL FÜR SCHICHTSTRUKTUR EINES REGENWASSERSPEICHERS

Title (fr)

ÉLÉMENT STRUCTUREL UTILISÉ POUR UNE STRUCTURE STRATIFIÉE DE STOCKAGE D'EAU DE PLUIE

Publication

**EP 2896755 A4 20160629 (EN)**

Application

**EP 13771903 A 20130401**

Priority

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- JP 2013059991 W 20130401

Abstract (en)

[origin: EP2896755A1] A structural member for building a rainwater storage stack structure by being stacked up vertically in alternating orthogonal directions inside a water storage tank provided underground is provided, which enables precise and stable stacking, and formation of a rainwater storage stack structure with a small number of stacking and with a larger capacity for rainwater. The structural member 1 has hollow rectangular frusta 2 arranged front and back and right and left and coupled at lower ends thereof with a bottom plate part 3a of a constant width, each frustum having a rectangular top wall 2a and slanted peripheral wall plates 2b extending from four side edges of the top wall 2a. Protrusions 4 and 4 are protruded at both ends of the top walls 2a, so that the lower ends of the slanted walls on both sides of the rectangular frusta 2 of upper structural members 1 are supported on the top walls 2a of the lower structural members 1. The lower ends engage with the opposite inner faces at the lower ends of the protrusions 4 and 4 so as to support load from above. The bottom plate parts 3a are provided with engaging recesses 5 that are placed over the protrusions 4 and 4 of the structural members 1 arranged below to prevent unwanted forward, backward, leftward, or rightward displacement of the structural members 1.

IPC 8 full level

**E03B 3/03** (2006.01); **E03B 11/14** (2006.01); **E03F 1/00** (2006.01)

CPC (source: EP)

**E03F 1/002** (2013.01)

Citation (search report)

- [I] JP 2001040719 A 20010213 - MITSUBOSHI BELTING LTD
- [ID] JP 2009024447 A 20090205 - SEKISUI PLASTICS, et al
- [I] WO 2011037002 A1 20110331 - SEKISUI PLASTICS [JP], et al
- [A] JP 2009114784 A 20090528 - SEKISUI PLASTICS
- See references of WO 2013151020A1

Designated contracting state (EPC)

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