

Title (en)  
TRAMPOLINE SUPPORT STRUCTURE

Title (de)  
TRAMPOLINSTÜTZSTRUKTUR

Title (fr)  
STRUCTURE DE SUPPORT DE TRAMPOLINE

Publication  
**EP 3156105 B1 20171101 (EN)**

Application  
**EP 15189351 A 20151012**

Priority  
EP 15189351 A 20151012

Abstract (en)  
[origin: EP3156105A1] A trampoline support structure includes a manifold (1), a first annular tube (2), a mesh encircled tube (3), a second annular tube (4) and a support tube (5). The manifold (1) includes a longitudinal installation portion (11), a transverse installation portion (12) and an installation hole (13) located on the transverse installation portion (12). The first annular tube (2) includes a first assembly section (21) inserted into the transverse installation portion (12) and an anchor hole (23) located on the first assembly section (21). The mesh encircled tube (3) includes an anchor section (31) inserted into the installation hole (13), the anchor hole (23) and the longitudinal installation portion (11). The second annular tube (4) includes a second assembly section (41) inserted into the first assembly section (21). The support tube (5) is coupled on the longitudinal installation portion (11). By coupling the second annular tube (4) on the first annular tube (2), anchoring the mesh encircled tube (3) on the transverse installation portion (12) and the first annular tube (2), the anchor section (31), the longitudinal installation portion (11) and the support tube (5) form a multi-layer structure, thus can solve the problem of inadequate structural strength occurred to the conventional techniques.

IPC 8 full level  
**F16D 1/00** (2006.01); **A63B 5/11** (2006.01); **A63B 21/02** (2006.01); **A63B 71/02** (2006.01)

CPC (source: EP)  
**A63B 5/11** (2013.01); **A63B 21/023** (2013.01); **A63B 71/022** (2013.01); **A63B 2225/093** (2013.01)

Citation (opposition)  
Opponent : **Chen Samuel**  
• US 2010240496 A1 20100923 - CHEN SAMUEL [CN]  
• CN 201212506 Y 20090325 - YU ZHENXIAN [CN]  
• CN 201212506 Y 20090325 - YU ZHENXIAN [CN]  
• US 7494444 B2 20090224 - ADAMS CRAIG [US]

Cited by  
US2022212049A1; US11458343B2

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)  
**EP 3156105 A1 20170419; EP 3156105 B1 20171101; EP 3156105 B2 20210901**; DK 3156105 T3 20180129; DK 3156105 T4 20211115

DOCDB simple family (application)  
**EP 15189351 A 20151012**; DK 15189351 T 20151012