

Title (en)  
DRAIN STRUCTURE

Title (de)  
DRAINAGESTRUKTUR

Title (fr)  
STRUCTURE DE DRAIN

Publication  
**EP 3138967 A1 20170308 (EN)**

Application  
**EP 15190618 A 20151020**

Priority  
TW 104214492 U 20150907

Abstract (en)  
A drain structure used for mounting in a pipe includes a ring wall, a bottom plate and a chamber, wherein at least one overflow hole mounted on the ring wall communicates with an inner ring wall and an outer ring wall. The overflow hole comprises a first opening and a second opening, wherein the first opening comprises a top edge, and the second opening comprises a bottom edge. A first horizontal surface passes through the top edge of the first opening, and a second horizontal surface passes through the bottom edge of the second opening, wherein the first horizontal surface is not higher than the second horizontal surface to form a first water tank between the second horizontal surface and the bottom plate. Liquid accumulated in the first water tank is able to prevent insects and gases in outdoors from entering indoors via the pipe.

IPC 8 full level  
**E03C 1/28** (2006.01); **E03F 5/04** (2006.01)

CPC (source: EP US)  
**A47K 1/14** (2013.01 - EP US); **E03C 1/22** (2013.01 - US); **E03C 1/28** (2013.01 - EP US); **E03F 5/0405** (2013.01 - EP US); **E03F 5/0407** (2013.01 - EP US); **E03F 5/041** (2013.01 - US); **E03F 2005/0416** (2013.01 - EP US)

Citation (search report)  
• [X] DE 1922160 A1 19701105 - WIFA VERKEN AB  
• [X] DE 3536616 A1 19870416 - BLUM ALBERT [DE]  
• [X] CN 2337205 Y 19990908 - FAN DAOTONG [CN]  
• [X] EP 1319764 A2 20030618 - GHISAFON S N C DI ADAMI GIOVAN [IT]

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 3138967 A1 20170308**; CA 2913360 A1 20170307; CN 205012575 U 20160203; JP 3201438 U 20151210; TW M514486 U 20151221; US 2017067244 A1 20170309

DOCDB simple family (application)  
**EP 15190618 A 20151020**; CA 2913360 A 20151123; CN 201520747009 U 20150924; JP 2015004865 U 20150925; TW 104214492 U 20150907; US 201514872227 A 20151001