

Title (en)

IMPROVEMENTS RELATING TO TACTILE GROUND SURFACE INDICATORS

Title (de)

VERBESSERUNGEN AN TAKTILEN BODENFLÄCHENINDIKATOREN

Title (fr)

AMÉLIORATIONS RELATIVES À DES INDICATEURS DE SURFACE AU SOL TACTILES

Publication

**EP 2880648 A1 20150610 (EN)**

Application

**EP 13824890 A 20130213**

Priority

- AU 2012903258 A 20120730
- AU 2013000122 W 20130213

Abstract (en)

[origin: WO2014019012A1] There is disclosed a method of manufacturing a tactile ground surface indicator which comprises a head configured to lie fixed over a ground surface, the method comprising plastically deforming a section of metal plate to form a dish shaped piece and machining an exterior of the dish-shaped piece whereby an external profile of said head is formed. There is also disclosed a method of manufacturing a tactile ground surface indicator having a head and a downwardly projecting member connected to the head to be fixedly receivable by a cavity formed through the ground surface for anchoring the head over a ground surface, in which method an element defining the downwardly projecting member or from which that member is derived is positioned such that an end portion thereof extends through an opening formed through either the head or a piece from which is derived an exterior portion of the head arranged to be visibly exposed when the head is anchored, and plastic deformation of the end portion and/or piece is effected to create an interlock between the piece and element.

IPC 8 full level

**G09F 19/22** (2006.01); **A61H 3/06** (2006.01); **E01F 11/00** (2006.01)

CPC (source: AU CN EP)

**A61H 3/06** (2013.01 - AU EP); **E01F 11/00** (2013.01 - CN); **G09F 19/22** (2013.01 - EP); **G09F 19/228** (2013.01 - CN EP);  
**A61H 2201/169** (2013.01 - AU); **B21D 31/043** (2013.01 - AU); **B21J 1/04** (2013.01 - AU); **F04C 2270/0421** (2013.01 - EP)

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)

**WO 2014019012 A1 20140206**; AU 2013200754 A1 20140213; AU 2013200754 B2 20150730; AU 2013200754 C1 20180607;  
AU 2013200768 A1 20140213; AU 2013200768 B2 20150507; AU 2013200768 C1 20151022; AU 2019201355 A1 20200910;  
CN 104704548 A 20150610; CN 104704548 B 20190802; CN 110080126 A 20190802; EP 2880648 A1 20150610; EP 2880648 A4 20160615;  
EP 2880648 B1 20190626; EP 3531406 A1 20190828; EP 3531406 B1 20200916; HK 1211132 A1 20160513; NZ 630063 A 20161125;  
NZ 710582 A 20170224; SG 10201702089T A 20170427; SG 11201500761T A 20150429

DOCDB simple family (application)

**AU 2013000122 W 20130213**; AU 2013200754 A 20130213; AU 2013200768 A 20130213; AU 2019201355 A 20190226;  
CN 201380050638 A 20130213; CN 201910018150 A 20130213; EP 13824890 A 20130213; EP 19163107 A 20130213;  
HK 15111744 A 20151130; NZ 63006313 A 20130213; NZ 71058213 A 20130213; SG 10201702089T A 20130213;  
SG 11201500761T A 20130213