

Title (en)

Shaft assembly and method for producing a shaft assembly

Title (de)

Schachtanordnung und Verfahren zur Herstellung einer Schachtanordnung

Title (fr)

Agencement de puits et procédé de fabrication d'un agencement de puits

Publication

EP 2660393 A3 20170315 (DE)

Application

EP 13165212 A 20130424

Priority

DE 102012008735 A 20120504

Abstract (en)

[origin: EP2660393A2] The arrangement (1) has a shaft pipe (10) made of plastic, and a shaft covering frame (20) comprising a tubular insertion section, which is inserted into a pipe aperture (11) of the shaft pipe. A retaining projection (26) is arranged at the insertion section and connected with the shaft pipe in a mounted state by plastic deformation of the shaft pipe in a form-fit manner. The retaining projection comprises an accumulating surface (30) turned to a free end of the insertion section and running in a flat angle to the insertion section. An independent claim is also included for a method for manufacturing a shaft arrangement.

IPC 8 full level

E02D 29/12 (2006.01); **E02D 29/14** (2006.01)

CPC (source: EP)

E02D 29/121 (2013.01); **E02D 29/124** (2013.01); **E02D 29/1427** (2013.01)

Citation (search report)

- [XY] DE 10111244 A1 20020912 - HEINRICH MEIER EISENGIESEREI G [DE]
- [YA] DE 102010006381 A1 20110804 - HEINRICH MEIER EISENGIESEREI GMBH & CO KG [DE]
- [A] GB 2266902 A 19931117 - UPONOR NV [AN]
- [A] DE 20008820 U1 20000817 - HEINRICH MEIER EISENGIESEREI G [DE]

Cited by

CN108978720A

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 2660393 A2 20131106; EP 2660393 A3 20170315; EP 2660393 B1 20190807; DE 102012008735 A1 20131107; PL 2660393 T3 20200228

DOCDB simple family (application)

EP 13165212 A 20130424; DE 102012008735 A 20120504; PL 13165212 T 20130424