

Title (en)

RETENTION RING FOR HYDRAULIC APPARATUS

Title (de)

HALTERING FÜR HYDRAULISCHE VORRICHTUNGEN

Title (fr)

ANNEAU DE RÉTENTION POUR APPAREIL HYDRAULIQUE

Publication

EP 4124754 A1 20230201 (EN)

Application

EP 21188082 A 20210727

Priority

EP 21188082 A 20210727

Abstract (en)

In summary, there is provided a hydraulic apparatus comprising an eccentric rotatable about an axis, a plurality of piston feet arranged around a running surface of the eccentric and wherein each piston foot is configured to reciprocate by rotation of the eccentric. In addition there is provided a retention ring having an inner surface which defines therein at least one depression, an outer surface defined by the outer circumference of the retention ring; and first and second lateral surfaces each extending between the inner surface and the outer surface. The piston feet each have a seat portion and a lateral flange, and at least two of the piston feet have a protrusion that is sized and shaped in relation to the size and shape of the depression, such that the protrusion can move from the first lateral surface of the retention ring towards the second lateral surface of the retention ring, via the depression, when the protrusion is in a first position with respect to the depression, such that the retention ring then surrounds both the lateral flange and the eccentric.

IPC 8 full level

F04B 1/053 (2006.01); **F03C 1/04** (2006.01); **F03C 1/053** (2006.01); **F04B 1/0426** (2006.01)

CPC (source: EP)

F03C 1/0419 (2013.01); **F03C 1/053** (2013.01); **F04B 1/0426** (2013.01); **F04B 1/053** (2013.01)

Citation (search report)

- [A] US 4223595 A 19800923 - ORTELLI AURELIO
- [A] US 2014202325 A1 20140724 - KRAMER BRADLEY J [US], et al
- [A] GB 580320 A 19460904 - AUTOMOTIVE PROD CO LTD, et al

Designated contracting state (EPC)

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BA ME

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DOCDB simple family (application)

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