

Title (en)

HYDRAULIC PISTON PUMP AND METHOD FOR AFFECTING THE SOUND CHARACTER OF THE PISTON PUMP

Title (de)

HYDRAULISCHE KOLBENPUMPE UND VERFAHREN ZUR BEEINFLUSSUNG DES KLANGVERLAUFS DER KOLBENPUMPE

Title (fr)

POMPE À PISTON HYDRAULIQUE ET PROCÉDÉ POUR INFLUENCER LE SON DE LA POMPE À PISTON

Publication

EP 4350144 A1 20240410 (EN)

Application

EP 22200010 A 20221006

Priority

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Abstract (en)

Hydraulic piston pump (1) comprising a plurality of pistons (8), where each piston is arranged in a cylinder barrel (10), where at least one piston (8) is arranged to deliver a specific pressure or output flow that differs from the pressure or output flow delivered by the other pistons (8).

IPC 8 full level

F04B 1/20 (2020.01); **F04B 53/00** (2006.01)

CPC (source: EP US)

F04B 1/20 (2013.01 - EP); **F04B 1/2035** (2013.01 - US); **F04B 1/2078** (2013.01 - US); **F04B 53/001** (2013.01 - EP)

Citation (search report)

- [A] US 2016131117 A1 20160512 - BALENGHIEN OLIVIER [FR], et al
- [A] US 2020256332 A1 20200813 - TONNQVIST ANDREAS [SE], et al
- [A] US 2009016908 A1 20090115 - HARTL MICHAEL [DE]
- [A] SHEN WEI ET AL: "Comparative analysis of component design problems for integrated hydraulic transformers", THE INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, SPRINGER, LONDON, vol. 103, no. 1, 21 March 2019 (2019-03-21), pages 389 - 407, XP036827999, ISSN: 0268-3768, [retrieved on 20190321], DOI: 10.1007/S00170-019-03543-2

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BA

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DOCDB simple family (publication)

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