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(54) **Oscillatory actuator for concrete pumps, with hydraulically driven rack and pinion unit**

(57) Oscillatory actuator for pumps for concrete or other dense or incoherent liquid products, having a pinion or ring gear unit (11) which is connected to the end of the gooseneck pipe (CC) which is to be made to rotate alternately in both directions, and which interacts with a rack (10) driven hydraulically by the alternating sliding of its end pistons (110, 110') in sealed chambers formed in a box-like body (1) which contains the rack and pinion unit, **characterized in that** the end pistons of the rack,

with their piston rings and lateral gaskets (9, 9'), slide in wear liners (5, 5') mounted in a sealed way with corresponding gaskets (4, 4') in robust tubes (2, 2') which are fixed, with their sealing means (3, 3'), in axially aligned seats (201, 201') of said box-like body, together with the caps (7, 7') which interact in a sealed way with said liners and which have holes (12, 12') for connection to the pipes of the hydraulic drive circuit, these pipes having alternating delivery and discharge functions.

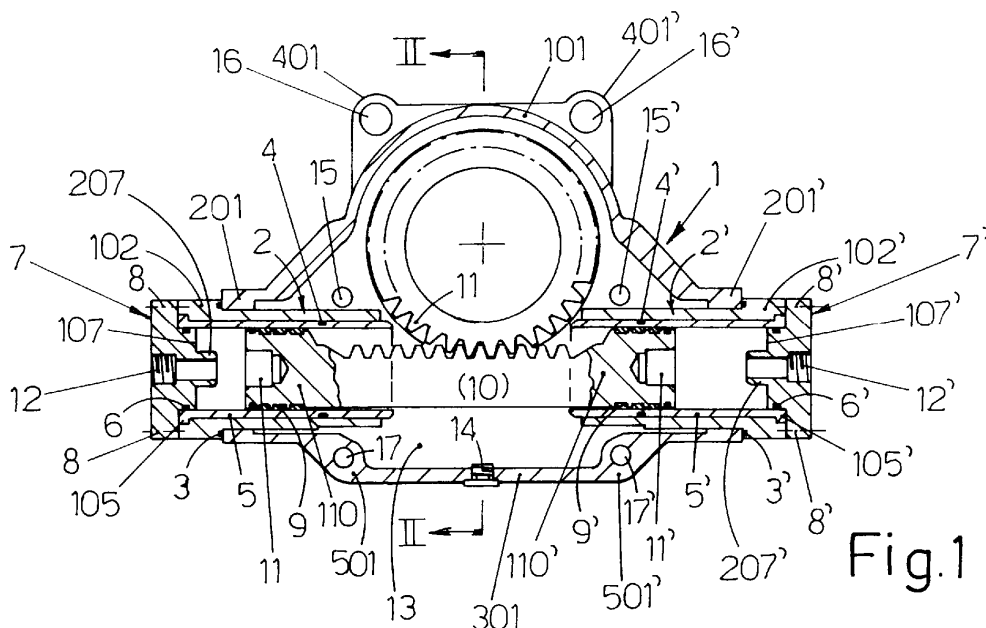


Fig.1



EUROPEAN SEARCH REPORT

Application Number
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| DOCUMENTS CONSIDERED TO BE RELEVANT | | | |
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| Category | Citation of document with indication, where appropriate, of relevant passages | Relevant to claim | CLASSIFICATION OF THE APPLICATION (IPC) |
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| A | * column 2, line 59 - column 3, line 44; figures 3,7,9 * | 5-8 | |
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| | | | F15B |
| The present search report has been drawn up for all claims | | | |
| Place of search The Hague | | Date of completion of the search 2 September 2013 | Examiner Regaud, Christian |
| <p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document</p> | | | |

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
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02-09-2013

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