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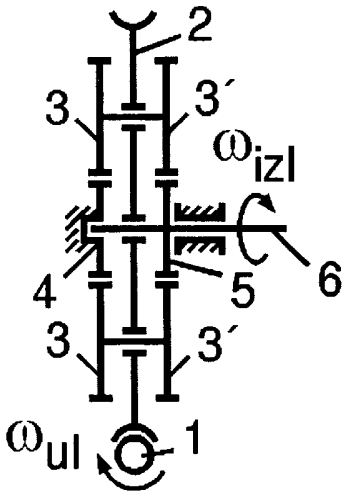
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(54) Title: WORM-PLANETARY GEAR TRAIN WITH HIGH TRANSMISSION RATIO



(57) Abstract: The invention represents a combination of a worm gearing and a planetary gear train that are not connected in series, which is standard with combined gear trains, but the output member of the worm gearing is the input member of the planetary gear train at the same time so that a compact construction is achieved.The rotation of a worm (1) with the angular velocity in is transmitted to a worm wheel (2), which is in mesh with the worm (1). The worm wheel (2) rotates on an output shaft (6) and acts as a carrier of planet gears (3, 3') in the planetary gear train. One central gear (4) is fixed and the other, a central gear (5), is fastened to the output shaft (6). The central gear (5) transmits the rotation with the angular velocity out to the output shaft (6). A high transmission ratio is realized with a convenient selection of the gear parameters of the planetary gear train.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16H37/04 F16H1/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 1 143 165 A (MOTOVARIO S P A) 10 October 2001 (2001-10-10) figure 1	1
A	DE 29 28 705 A (PRADLER JOSEF) 29 January 1981 (1981-01-29) figure 1	1
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A	DE 38 30 654 A (DAIMLER BENZ AG) 23 November 1989 (1989-11-23) figure 1	1

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[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
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Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

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