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(71) Applicant: **HANSEN TRANSMISSIONS**
INTERNATIONAL,
naamloze vennootschap
2650 Edegem (BE)

(72) Inventors:
• **Goesaert, Ben**
2060, Antwerpen (BE)

• **Loenders, Jo**
2490, Balen (BE)
• **Bogaert, Roger**
9200, Dendermonde (BE)
• **Lurquin, Johan**
2360, Oud-Turnhout (BE)
• **Smook, Warren**
3040, Huldenberg (BE)

(74) Representative: **Donné, Eddy**
Bureau M.F.J. Bockstael nv
Arenbergstraat 13
2000 Antwerpen (BE)

(54) **Planetary gear transmission unit with planet shaft locking mechanism**

(57) The present invention provides a planetary gear transmission unit (20) comprising a planet carrier (14) which supports and locates circumferential spaced pairs of planet gears (12), and at least one planet shaft (13). The planetary gear transmission unit (20) furthermore comprises a planet shaft locking mechanism (18) between the at least one planet shaft (13) and the planet carrier (14) for preventing the at least one planet shaft (13) from rotating around its own axis. An advantage of a planetary gear transmission unit (20) according to embodiments of the invention is that rotation of the planet shafts (13) relative to its bore in the planet carrier (14) is prevented. The invention results in a free of wear contact between planet shaft (13) and planet carrier (14), thereby allowing all degrees of freedom of the planet shaft (13), without disturbing the load distribution between the planet gears (12) of a pair on one planet shaft (13).

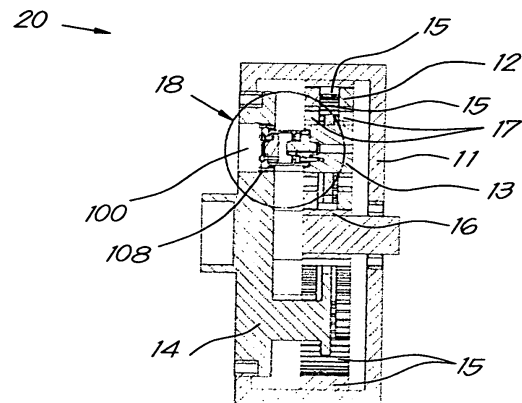


Fig. 2