

Title (en)
UNIDIRECTIONAL COUNTER

Title (de)
UNIDIREKTIONALES ZÄHLWERK

Title (fr)
COMPTEUR UNIDIRECTIONNEL

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Abstract (en)
[origin: WO0248957A1] The invention relates to a unidirectional counter comprising a driven worm gear (1) and a least one numerical display (3), driven by the rotation of the worm gear (1). The worm gear (1) is connected to a first system gear (8) by means of a first ratchet-pawl system (6, 7a, b). Said first ratchet-pawl system (6, 7a, b) comprises at least a first pair of pawls (7a, b) with two connected pawls (7a, b) working in tandem. Furthermore a reverse gear (10) may be driven by the worm gear (1), which is connected to a second system gear (14) by means of a second ratchet-pawl system (12, 13a, b). Said second ratchet-pawl system (12, 13a, b) comprises a second pair of pawls (13a, b) with two connected pawls (13a, b) working in tandem. According to the invention, an exact as possible totalisation and display of used energy units even on a change in direction may be achieved, whereby at least one pawl (7a, b, 13a, b) on each of the first and second ratchet-pawl systems (6, 7a, b; 12, 13a, b) are in the engaged position, pointing towards a ratchet tooth (6, 12), or are in direct contact with a ratchet tooth (6, 12).

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