

Title (en)  
UNIDIRECTIONAL COUNTER

Title (de)  
UNIDIREKTIONALES ZÄHLWERK

Title (fr)  
COMPTEUR UNIDIRECTIONNEL

Publication  
**EP 1346317 A1 20030924 (DE)**

Application  
**EP 01983748 A 20011128**

Priority  
• DE 10062807 A 20001215  
• IB 0102248 W 20011128

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).

IPC 1-7  
**G06M 3/12**; G06M 1/06

IPC 8 full level  
**G06M 1/06** (2006.01); **G06M 3/12** (2006.01)

CPC (source: EP)  
**G06M 1/064** (2013.01); **G06M 3/12** (2013.01)

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 0248957 A1 20020620**; AT E410749 T1 20081015; AU 1516802 A 20020624; BR 0116149 A 20031021; BR PI0116149 B1 20160112; CN 1237480 C 20060118; CN 1489749 A 20040414; DE 10062807 A1 20020711; DE 10062807 C2 20030206; DE 50114404 D1 20081120; EP 1346317 A1 20030924; EP 1346317 B1 20081008

DOCDB simple family (application)  
**IB 0102248 W 20011128**; AT 01983748 T 20011128; AU 1516802 A 20011128; BR 0116149 A 20011128; CN 01822584 A 20011128; DE 10062807 A 20001215; DE 50114404 T 20011128; EP 01983748 A 20011128