

Title (en)
Drum-type counter.

Title (de)
Rollenzählwerk.

Title (fr)
Compteur à rouleaux.

Publication
EP 0024647 A1 19810311 (DE)

Application
EP 80104824 A 19800814

Priority
DE 2934829 A 19790829

Abstract (en)
1. A drum-type counter mechanism, consisting of number drums (23, 24) which are supported to rotate on an axis (22) in a counterframe and having switching pinions (26, 27), which are associated with these number drums and which are supported to rotate on another axis (25), for indexing adjacent number drums (23, 24) to the next position, and having an electric stepping motor which drives the first one (23) of the number drums and which is provided with a stator (11-15), a stator coil (16, 17) and a rotor (20) which is supported to rotate between the pole shoes (11a, 14a) of the stator (11-15) and is arranged coaxially with or parallel to the number drum axis (22) and axially offset with respect to the number drums (23, 24), characterized in that the stator has two shanks (12, 15) which are arranged in parallel with the number drum axis (22) and essentially extend over the whole length of the number drum axis and which, at one end, are joined to each other via a yoke plate (13) and which, on the other end, have pole plates (11, 14) which are in each case arranged at right angles to the shanks and which are provided with the pole shoes (11a, 14a), and that the stator coil (16) is wound onto one or both shanks (12, 15) to be distributed over the whole shank length.

Abstract (de)
Rollenzählwerk, dessen Zahlenrollen (23, 24) über Schalttriebe (26, 27) von einem impuls gespeisten Schrittschaltmotor angetrieben werden. Zur Erzielung eines geringen Platzbedarfes und Herabsetzung des Leistungsbedarfs ist der Schrittschaltmotor in das Rollenzählwerk integriert. Der Stator weist zwei parallel zur Zahlenrollenachse (22) angeordnete Schenke (15) auf, welche an einem Ende über ein Jochblech (13) miteinander verbunden sind. Am anderen Ende weisen diese Schenkel (15) jeweils Polbleche mit Polschuhen auf, zwischen welchen der Rotor drehbar gelagert ist. Die Statorspule (16) ist wenigstens auf einem der beiden Schenkel (15) über die gesamte Schenkellänge verteilt gewickelt.

IPC 1-7
G06M 1/10; G06M 1/02

IPC 8 full level
G06M 1/02 (2006.01); **G06M 1/04** (2006.01); **G06M 1/10** (2006.01)

CPC (source: EP)
G06M 1/02 (2013.01); **G06M 1/107** (2013.01)

Citation (search report)
• [A] DE 957529 C 19570207 - WILLI REICHERT FA
• [A] DE 953669 C 19561206 - WILLI REICHERT FA
• [A] US 3626263 A 19711207 - MCBRIDE MAURICE GRAHAM

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Designated contracting state (EPC)
CH DE FR GB IT SE

DOCDB simple family (publication)
DE 2934829 B1 19801204; DE 2934829 C2 19810730; DE 3061684 D1 19830224; EP 0024647 A1 19810311; EP 0024647 B1 19830119; JP S5657180 A 19810519; JP S589473 B2 19830221

DOCDB simple family (application)
DE 2934829 A 19790829; DE 3061684 T 19800814; EP 80104824 A 19800814; JP 11605080 A 19800825