

Title (en)
Counter.

Title (de)
Zähler.

Title (fr)
Compteur.

Publication
EP 0344931 A2 19891206 (EN)

Application
EP 89304691 A 19890509

Priority
GB 8812760 A 19880528

Abstract (en)
A counter comprises a series of hollow digit-displaying drums (13-17), with mechanical driving connections (18 - 21) driving succeeding drums so that a decimal total number is set up. The higher significance digit drums (14 - 17) each carry an optical encoder comprising a cylindrical surface with slots forming a binary code which is related to the displayed digit. U-section reading devices (30 - 33) straddle the encoder to read the code and produce an electrical coded output. To avoid problems caused by readings at changeover points, the lowest significance digit-displaying drum (13) is associated with an impulse drive which is triggered at each changeover point to drive the drum forward so that it does not come to rest at the changeover point. The impulse drive comprises an off-centre weight which rotates with the drum.

IPC 1-7
G06M 1/14; **G06M 1/272**

IPC 8 full level
G06M 1/14 (2006.01); **G06M 1/272** (2006.01)

CPC (source: EP)
G06M 1/14 (2013.01); **G06M 1/272** (2013.01)

Cited by
EP0939380A1; WO20101481A3; US6407377B1; DE102009003976A1; WO2010079129A2

Designated contracting state (EPC)
BE DE FR IT NL

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DOCDB simple family (application)
EP 89304691 A 19890509; GB 8812760 A 19880528; GB 8907789 A 19890406