

Title (en)

Vending machine tracking system with controlled switching device

Title (de)

Verfolgungssystem für einen Verkaufsautomat mit gesteuerter Schaltvorrichtung

Title (fr)

Système de suivi de distributeur automatique avec dispositif de commutation contrôlé

Publication

EP 1684241 A1 20060726 (EN)

Application

EP 06250350 A 20060124

Priority

CA 2493837 A 20050124

Abstract (en)

A tracking system counts events in the operation of multiple machines or devices over a wide geographic area. One or more reed switches (122) for transmitting an electrical signal to a tracking device is mounted to the stationary frame (80) of the coin mechanism and actuated by a magnetic element (124) mounted to the revolving coin carrier (40). In one embodiment a controller (115) is programmed to pass a pulse from the reed switch (122) to a counter only once during every preset interval, for example five seconds. This helps to defeat attempts to artificially increase the vend count by jiggling the handle at the point where the magnet passes (124) the reed switch (122), to cause multiple passes within a single rotational cycle of the coin mechanism. Additional prevention is provided in a further embodiment having two reed switches (122) that must be actuated in sequence before the controller (115) will pass a pulse to the counter.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [DY] WO 03071496 A2 20030828 - BEAVER MACHINE CORP [CA], et al
- [Y] US 2004056085 A1 20040325 - ADAMS CHRISTOPHER [US]
- [A] US 6290049 B1 20010918 - NIKOLAYEV NIKOLAY [US]
- [A] US 5404986 A 19950411 - HOSSFELD ROBIN C [US], et al
- [A] US 2004130460 A1 20040708 - HINKLE TROY [US], et al
- [A] US 2004119351 A1 20040624 - SCHWARZLI JOSEF W [CA]
- [A] US 2003121326 A1 20030703 - PASLAY DAVID [US]
- [A] US 5201396 A 19930413 - CHALABIAN JACK S [US], et al

Cited by

ES2319090A1; ES2845823A1; WO2010076357A1

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