

Title (en)
Improvements in control systems for hand propelled vehicles.

Title (de)
Überwachungssystem für handgetriebene Fahrzeuge.

Title (fr)
Systèmes de contrôle pour des chariots à bras.

Publication
EP 0077690 A1 19830427 (EN)

Application
EP 82305571 A 19821020

Priority
GB 8131732 A 19811021

Abstract (en)
A trolley control system for use in supermarkets and the like which includes an outlet (10) having normally retracted stops (30) closable on the approach of a trolley (28), a sensor (32) to sense a trolley (28) approach to prevent passage thereof, and retractable to open the outlet (10) and allow passage of the trolley on payment of a deposit. At the other end of the system is an inlet (18) to a reception area (20) for returned trolleys having a detector which initiates a refund of a deposit. Identification devices may be provided on the trolleys to effect validation of a trolley before a refund is made. A card system (in place of tokens or money) may be used and the cards may be so called charge-cards by which the deposit may be charged and then credited to a customers account. The outlet sensor may be optical so as to be responsive to a reflective device on a trolley and unresponsive to a person. Trolleys may be counted in and out.

IPC 1-7
G07F 7/06; **G07F 17/00**; **A47F 10/04**

IPC 8 full level
A47F 10/04 (2006.01); **G07F 7/00** (2006.01); **G07F 7/06** (2006.01)

CPC (source: EP)
A47F 10/04 (2013.01); **G07F 7/0627** (2013.01); **G07F 7/0636** (2013.01); **G07F 7/0681** (2013.01)

Citation (search report)
• [Y] GB 2065624 A 19810701 - BYDALE ENG LTD
• [Y] DE 2125869 A1 19721207 - HEHEMANN G
• [A] EP 0025754 A1 19810325 - SUPERMARKET SYSTEM [FR]
• [A] US 3882982 A 19750513 - SMITH ROBERT M
• [A] US 3938638 A 19760217 - MOULE RICHARD D
• [A] US 3283868 A 19661108 - KUHNS STANLEY E., et al
• [A] US 3837455 A 19740924 - HURT A

Cited by
AU758243B2; EP0545233A1; EP0415805A1; FR2651349A1; NL1008651C2; EP0433751A1; FR2848323A1; EP0141285A1; FR2867880A1; GB2546261A; GB2546261B; DE19529456C1; US5589677A; EP0627715A3; NL1001724C2; US4576274A; EP0945832A3; US8950567B2; WO0061420A1; WO2005093672A1; WO2004055743A1; WO8404660A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0077690 A1 19830427; GB 2108745 A 19830518; GB 2108745 B 19850411

DOCDB simple family (application)
EP 82305571 A 19821020; GB 8131732 A 19811021