

Nicolas Vargas

1) Family number: 33097479 (US5902501A)

© PatBase

Title: Lighter actuation system

Abstract: Source: US5902501A The present invention provides a cigarette identifier system comprising a coil at a location along the cigarette-receiving receptacle of the lighter, an oscillation circuit in communication with the coil and a controller configured to activate or deactivate the lighter responsively to output of the oscillator circuit.

Classifications:**International (ipc 8-9):** A24F47/00 F23Q7/00 (Advanced/Invention);

F23Q7/00 (Advanced/Non-invention);

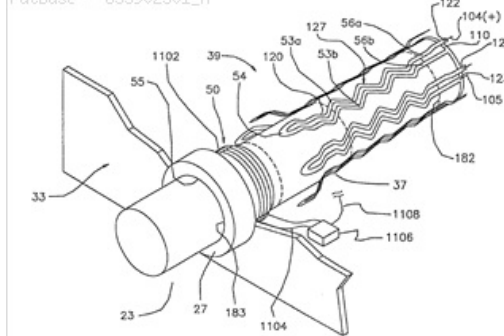
A24F47/00 F23Q7/00 (Core/Invention);

F23Q (Subclass/Invention);

A24F (Subclass/Non-invention)

International (ipc 1-7): A24F47/00 F23Q7/00**CPC:** A24F47/00B**European:** A24F47/00B2E**US:** 219/263 219/269

PatBase - US5902501_A

**Family:**

Publication number	Publication date	Application number	Application date
AT348983 E	20070115	AT19980952082T	19981014
AU199897866 A1	19990510	AU19980097866	19981014
CN1135325 C	20040121	CN19988010390	19981014
CN1280661 A	20010117	CN19988010390	19981014
DE69836691 D1	20070201	DE19986036691	19981014
DE69836691 T2	20071025	DE19986036691T	19981014
EP1036289 A1	20000920	EP19980952082	19981014
EP1036289 A4	20041124	EP19980952082	19981014
EP1036289 B1	20061220	EP19980952082	19981014
ES2276477 T3	20070616	ES19980952082T	19981014
HK1027153 A1	20070316	HK20000106260	20001003
ID27902 A	20010503	ID20000000971	19981014
JP2001521124 T2	20011106	JP20000517226T	19981014
JP4142248 B2	20080903	JP20000517226	19981014
KR100579783 B1	20060515	KR20007004275	19981014
KR20010031288 A	20010416	KR20007004275	20000420
US5902501 A	19990511	US19970953945	19971020
WO9920940 A1	19990429	WO1998US20945	19981014

Priority:

KR20007004275 20000420

US19970953945 19971020

WO1998US20945 19981014

Probable Assignee: PHILIP MORRIS INC**Assignee(s):** (std): PHILIP MORRIS INC ; PHILIP MORRIS PROD ; PHILIP MORRIS PRODUCTION INC ; PHILIP MORRIS PRODUCTS INC**Assignee(s):** VTECH ENGINEERING CORP**Inventor(s):** (std): BULTER NEAL R ; BUTLER NEAL R ; BUTLER NEIL R ; BUTLER R ; COBLER J ; COBLER PATRICK J ; DAVE E SHARPE ; DAVEE SHARPE ; DOUGLAS J ELY ; ELY DOUGLAS J ; ELY J ; H NEAL NUNNALLY ; HNEAL NUNNALLY ; MICHAEL L WATKINS ; MICHAEL WATKINS ; NEAL R BUTLER ; NEIL R BUTLER ; NUNNALLY H NEAL ; NUNNALLY NEAL ; PATRICK J COBLER ; SHARPE DAVE E ; SHARPE E ; WATKINS L ; WATKINS MICHAEL L**Inventor(s):** NUNNALLY H**Designated states:** AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW**2) Family number: 11342126** (US5967148A)

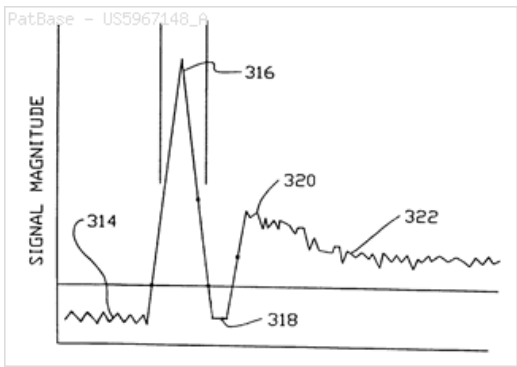
© PatBase

Title: LIGHTER ACTUATION SYSTEM

Abstract: Source: US5967148A A cigarette identifier system comprising an infrared emitter and an infrared detector located across an opening of a cigarette receiver, wherein the sensor registers changes in the transmission of the infrared beam across the opening so as to detect the differences in transmissivity of dense and less dense and portions of an inserted cigarette.

Classifications:**International (ipc 8-9):** A24F47/00 (Advanced/Invention);

A24F47/00 (Core/Invention)
International (IPC 1-7): A24F1/00 A24F13/00 A24F17/00 A24F25/00
CPC: Y10S131/905 Y10S131/906 A24F47/008
European: A24F47/00B2E
US: 131/329 131/330 131/905 131/906



Family:

Publication number	Publication date	Application number	Application date
AU199897740 A1	19990510	AU19980097740	19981014
US5967148 A	19991019	US19970951259	19971016
WO9920132 A1	19990429	WO1998US18481	19981014

Priority:

US19970951259 19971016 WO1998US18481 19981014

Probable Assignee: PHILIP MORRIS PRODUCTS INC

Assignee(s): (std): PHILIP MORRIS INC ; PHILIP MORRIS PROD

Assignee(s): PHILIP MORRIS PRODUCTS INC ; PHILIPS MORRIS INC

Inventor(s): (std): HARRIS CHARLES W ; NUNNALLY H NEAL ; RIPLEY ROBERT L ; RIPLEY ROBERT S ; SANO MASATO ; SMITH BARRY S

Inventor(s): ROBERT S RIPLEY ; MASATO SANO ; NUNNALLY H ; BARRY S SMITH ; CHARLES W HARRIS ; H NEAL NUNNALLY

Designated states: AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG UZ VN YU ZW