

Base : FAMPAT

SEARCH STRATEGY

SS Results

5	49	4 AND CUTT+
4	96	3 AND (PASSIVE OR INACTIVE OR STANDBY OR REPOSE)
3	3842	2 AND (PAPER OR SHEET+)
2	4501	..SIMILARITY SS 1 RANKED 1
1	1	(WO2015112061)/PN

49 Documents

Publication numbers	Title	Current assignees
JP02220620 A	Automatic toilet paper feeder.	WATANABE YUKINOBU
CA2418990 A1	Improved towel dispenser	KOCH RENEWABLE RESOURCES, ...
FR2539293 A1	Apparatus for dispensing strips of wound material with a device for automatic replacement of the roll in use	GRANGER MAURICE
CN102429606 A	Smart paper towel dispenser	HANGZHOU GOLDEN KEY TECHNOLOGY
JP2015027574 A	Toilet paper holder	FUJIKAWA SHIGETARO
EP-526358 A1	Device for the distribution and simultaneously cutting of rolled up web material.	GRANGER MAURICE
FR2609010 A1	Cutting device for an apparatus which simultaneously dispenses and cuts off strips of coiled materials	GRANGER MAURICE
FR2746620 A1	Apparatus for dispensing optionally folded wiping materials	GRANGER MAURICE
FR2746621 A1	Wiping material dispenser apparatus with a device for loading a spare roll	GRANGER MAURICE
GR-861519 B	Device for dispensing and cutting sheet material, with automatic roll change	GRANGER MAURICE
TW-492854 B	Paper towel and separation device of the paper	YEN SUN TECHNOLOGY
FR2911487 A1	Device for receiving end of use spools of wiping materials for a wiping material dispensing apparatus	GRANGER MAURICE
WO201203866 A1	Dispenser	SCA HYGIENE PRODUCTS
FR2911488 A1	Wiping material dispensing apparatus with a device for loading strips of wiping material	GRANGER MAURICE
EP1181884 A1	Dispenser for cleaning tissues	HTS INTERNATIONAL TRADING
JP11123160 A	Paper holder capable of cutting roll paper with one hand	NAKANO YOSHITOSHI
JP09253001 A	Toilet paper cutting device	HATAYA SADA0
CN2155794U Y	Toilet paper cutting device	WANG RONGLIN
JP2013132352 A	Paper holder	ARON KASEI
CN2202493U Y	Automatic feeding paper cutter	WANG MAOXI
SE8702872 L	Paper dispenser	METSAE SERLA
JP2013000568 A	Toilet paper holder	MIYANAGA TEIZO
JP10024937 A	Sheet roll holder	TOOYO
FI9302362 A0	Paper roll holder with brake for dispensing use	OTHMAN SVEN IVAR, ...
JP10117965 A	Toilet paper holder enabling the tearing-out of paper to desired length by one hand	SHIMURA NOBORU

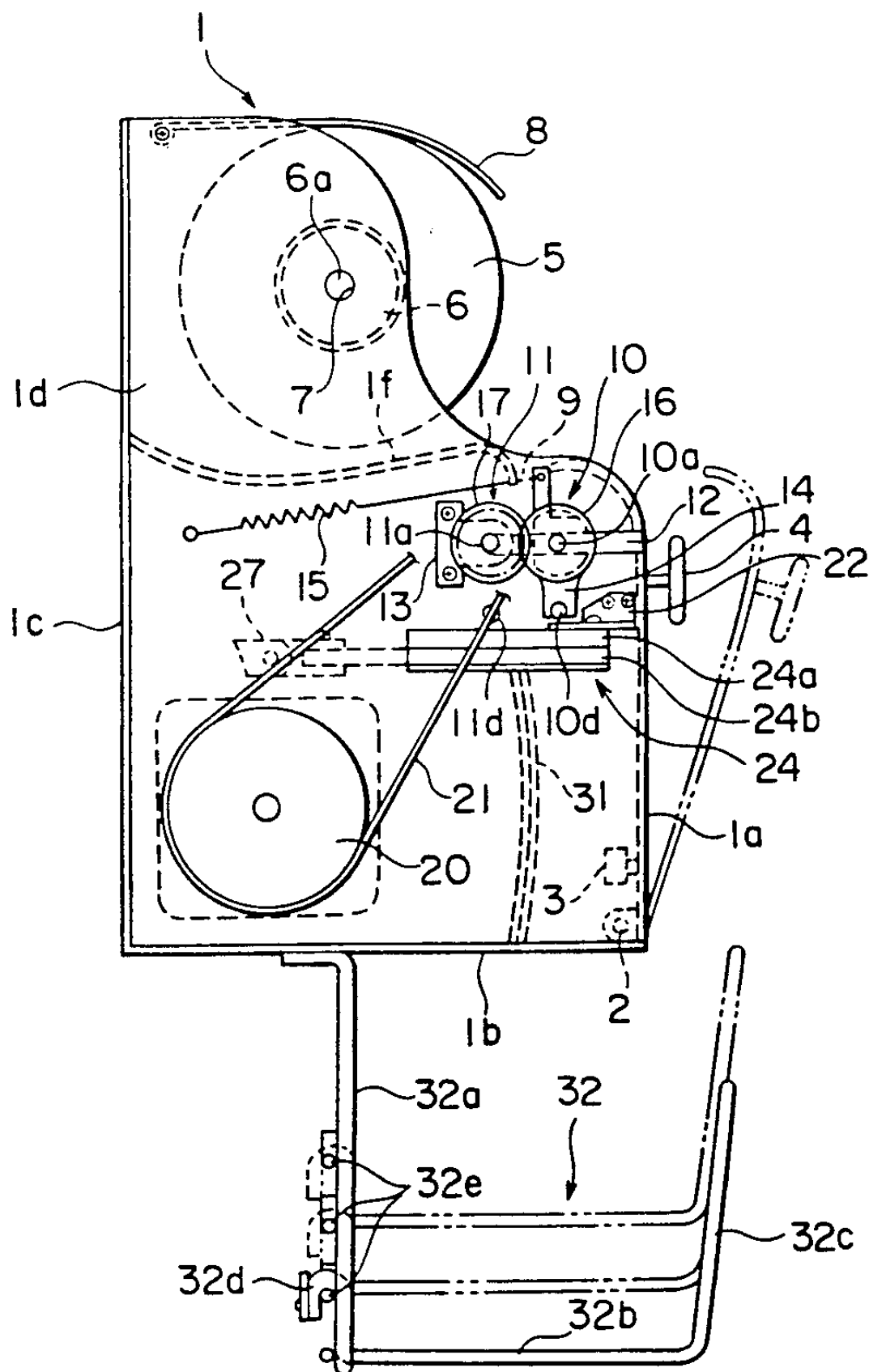
Publication numbers	Title	Current assignees
JP2006102215 A	Dispenser for roll paper	OKADA HIDEMI
JP4415064 B1	Toilet paper holder	IIMORI HISATO
JP10014818 A	Sheet roll holder	TOYO
CN207444879U U	Cutting the roll paper unit	ANHUI FEI NIU TECHNOLOGY
CN201612557U U	Entire intelligent paper goods	WANG HUCHENG
CN102860780 A	Tissue cutting mechanism of tissue device	WANG HUCHENG
JP2018000878 A	Roll paper holder	YUEI CASTER
JP11123159 A	Roll paper holder	INAX
CN2873064U Y	Intelligent toilet paper box	XUE WENGUANG
CN2717369U Y	Curl cutting mechanism for paper towels dispenser	YAN BEIYIN
JP3206392U U	Roll paper holder	Shirota Sadao
JP2015071023 A	Paper holder	OTSUKA AKIO
JP2013198714 A	Roll paper holder	ONE UP
JP11123158 A	Roll paper holder	INAX
CN202751306U U	Tissue machine cutting tissue mechanism	WANG HUCHENG
WO2018126236 A1	Paper product dispenser	KIMBERLY CLARK WORLDWIDE
JP11123161 A	Roll paper holder	INAX
CN104545644 A	Intelligent tissue machine	XUE WENGUANG
CN204394394U U	Excrement wiping manipulator	HU YEJIE
CN104523191 A	Excrement wiping manipulator	HU YEJIE
CN101456300 A	Rotary cutter unit and printer device having the unit	FUJITSU COMPONENT
FR2739545 A1	Wiping material dispenser apparatus with a spare roll loading device	GRANGER; MAURICE
CN2732164U Y	Mechanic member of wet napkin machine	HANGZHOU AISEN TECHNOLOGY
WO200244985 A1	Polarizer based detector	MEI

Family 1/49 - FAMPAT - ©Questel

Title

(EP-412169)

Automatic toilet paper feeder.

Images

	A	1990-09-03	JP02220620
WO9009755	A1	1990-09-07	WO9009755
GB9022961	D0	1990-12-19	GB9022961
EP0412169	A1	1991-02-13	EP-412169
DE4090271	T1	1991-02-21	DE4090271T
GB2237007	A	1991-04-24	GB2237007
EP0412169	A4	1991-08-21	EP-412169
US5131302	A	1992-07-21	US5131302
GB2237007	B	1993-03-03	GB2237007
JPH0659268	B2	1994-08-10	JP94059268
EP0412169	B1	1994-11-02	EP-412169
JP1934158	C	1995-05-26	JP1934158
DE4090271	C2	1996-03-28	DE4090271



Abstract

(EP-412169)

This invention relates to an automatic toilet paper feeder. A toilet paper driving motor (19) is actuated by a detection signal from a non-contact sensor (34) for a period set by a timer (33) to deliver a predetermined length of toilet paper, and when this paper is cut by **cutters** (24, 24'), one operation cycle is completed to prepare for the next cycle. A safety circuit (S) of a **cutter** motor (28) is provided so that when foreign matters exceeding the **cutting** power of the **cutters** (24, 24') are clamped between them, a **cutter** motor (28) is rotated reversely and the **cutters** (24, 24') are returned to the original operation start position. Toilet paper driving rollers (10, 11) are made of non-metallic flexible members (10b, 11b) divided into a plurality of segments in order to prevent the toilet paper, which is easily chargeable, from being entangled due to electrostatic suction and a contact portion (31b) having a small area is provided on a guide plate (31) below the **cutters** (24, 24'). The movable blades (24b, 24b') of the **cutters** (24, 24') are brought into pressure contact with fixed blades (24a, 24a') by a spring (26) so as to cut sharply the soft and flexible toilet paper (5). A receiving portion (32) is formed in an L-shape so that the toilet paper (5) delivered in the predetermined length can be folded into a predetermined width and supplied irrespective of its delivered length. The receiving portion is also adjustable in a vertical direction. An openable cover (1a) is disposed on the front surface of the case (1) so that when any paper or foreign matter is clamped in the toilet paper driving rollers (10, 11) or the **cutters** (24, 24'), it can be removed easily by opening the cover (1a). When this cover (1a) is opened, the power switch is turned off so that the clamped matter can be removed safely.

Inventors

WATANABE YUKINOBU

Publication dates

1990-09-03

1990-09-07

1990-12-19

1991-02-13

1991-02-21

1991-04-24

1991-08-21

1992-07-21

1993-03-03

1994-08-10

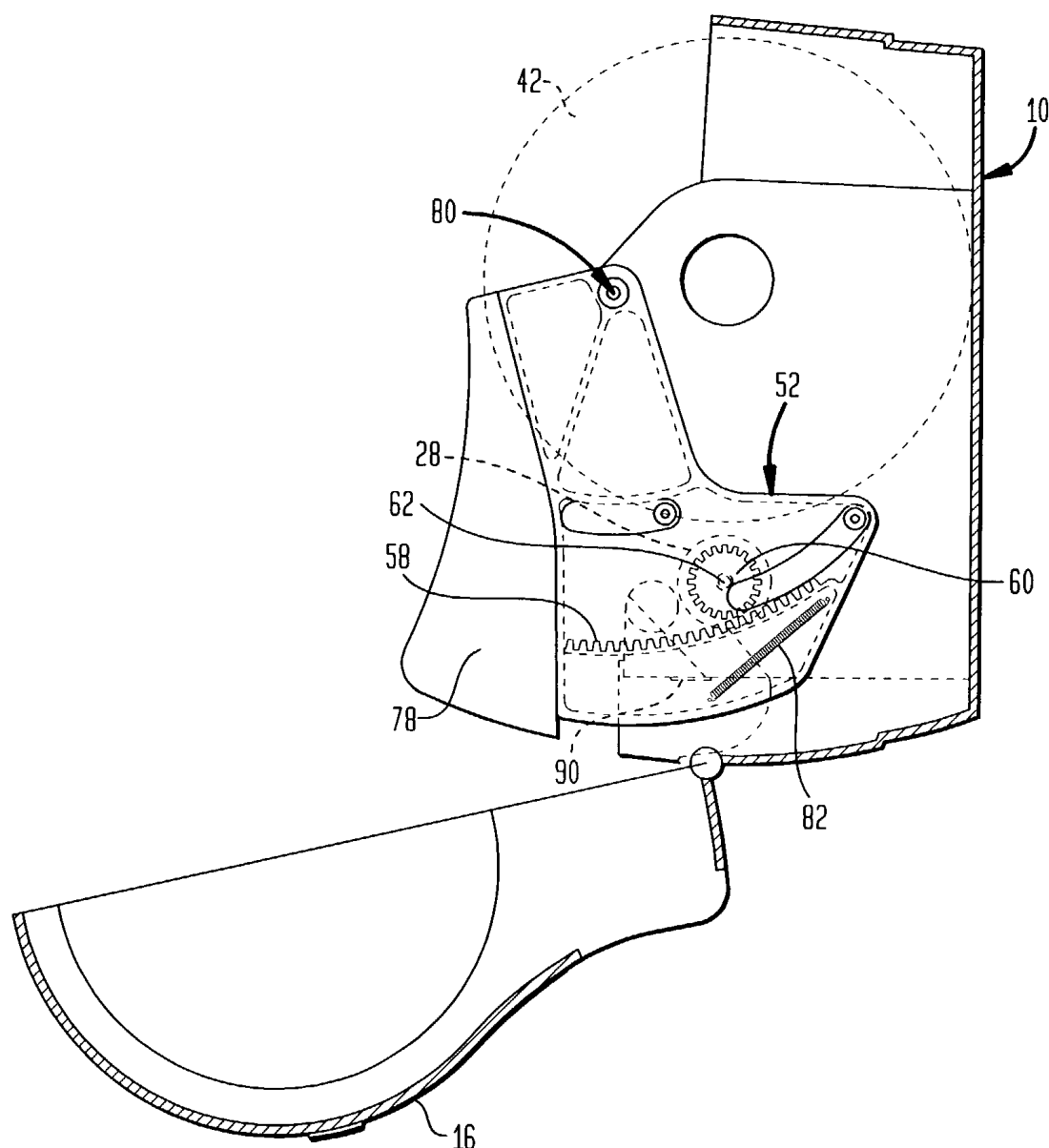
1994-11-02

1995-05-26

1996-03-28

(EP1336368)

Improved towel dispenser

Images**Publication data including kind & date**

CA2418990	A1	2003-08-15	CA2418990
EP1336368	A2	2003-08-20	EP1336368
US20030164079	A1	2003-09-04	US20030164079
EP1336368	A3	2004-01-28	EP1336368
US2015083846	A1	2015-03-26	US20150083846
US9010602	B2	2015-04-21	US9010602

**Abstract**

(EP1336368)

An improved towel dispenser includes a rotatable driveshaft mounted in a one-way clutch bearing fitted with a pinion which engages a vertically oriented press bar assembly including at its lower portion a rack which engages the pinion to advance paper towel through a dispensing nip upon pivotable motion of the press bar assembly. A dispensing chute located below the dispensing nip includes a lower shelf configured to direct web forwardly toward the front portion of a dispenser. The gear rack is preferably an internal gear rack integrally formed with a unitary press bar assembly member. The dispensing chute is

configured such that an angle between a **cutting** blade and the outer lip of the shelf makes an angle with a vertical of at least about 25 DEG . <IMAGE>

Inventors

BUDZ GREGORY D

KILGORE MICHAEL R

AUMANN JONATHAN R

MOODY JOHN R

Latest standardized assignees - inventors removed

KOCH RENEWABLE RESOURCES

PRIM

GEORGIA PACIFIC

G P GYPSUM

DIXIE CONSUMER PRODUCTS DELAWARE LIABILITY

XRS

SOUTHWEST MILLWORK & SPECIALTIES

GREAT NORTHERN NEKOOSA

GEORGIA PACIFIC GYPSUM DELAWARE LIABILITY

GEORGIA PACIFIC CONSUMER PRODUCTS DELAWARE LIABILITY

FORT JAMES MAINE

BROWN BOARD HOLDING

GEORGIA PACIFIC WOOD PRODUCTS DELAWARE LIABILITY

KOCH WORLDWIDE INVESTMENTS

NEKOOSA PAPERS

GEORGIA PACIFIC CORRUGATED DELAWARE LIABILITY

FORT JAMES NORTHWEST

ENCADRIA STAFFING SOLUTIONS

GEORGIA PACIFIC RESINS

GEORGIA PACIFIC DELAWARE PARTNERSHIP

BLUEYELLOW

KOCH CELLULOSE AMERICA MARKETING

MILLENNIUM PACKAGING SOLUTIONS

FORT JAMES CAMAS

GEORGIA PACIFIC INVESTMENT

KOCH FOREST PRODUCTS HOLDING

FORT JAMES INTERNATIONAL

GREAT SOUTHERN PAPER

ASHLEY DREW & NORTHERN RAILWAY

FORT JAMES OPERATING

FORT JAMES GREEN BAY

WEST GEORGIA MANUFACTURING

OLD PINE BELT RAILROAD

CECORR

BLUE RAPIDS RAILWAY

LEAF RIVER CELLULOSE

OLD AUGUSTA RAILROAD

GLOSTER SOUTHERN RAILROAD

GP CELLULOSE ZUG SWITZERLAND LIABILITY

GEORGIA PACIFIC CHILDCARE CENTER

TOMAHAWK LAND

LEAF RIVER FOREST PRODUCTS

CP & P

G P OREGON

GEORGIA PACIFIC CHEMICALS DELAWARE LIABILITY

KOCH CELLULOSE

BRUNSWICK CELLULOSE

COLOR BOX

BRUNSWICK PULP LAND

NEKOOSA PACKAGING

PHOENIX ATHLETIC CLUB

KMHC

GPCP IP HOLDINGS

Publication dates

2003-08-15

2003-08-20

2003-09-04

2004-01-28

2015-03-26

2015-04-21

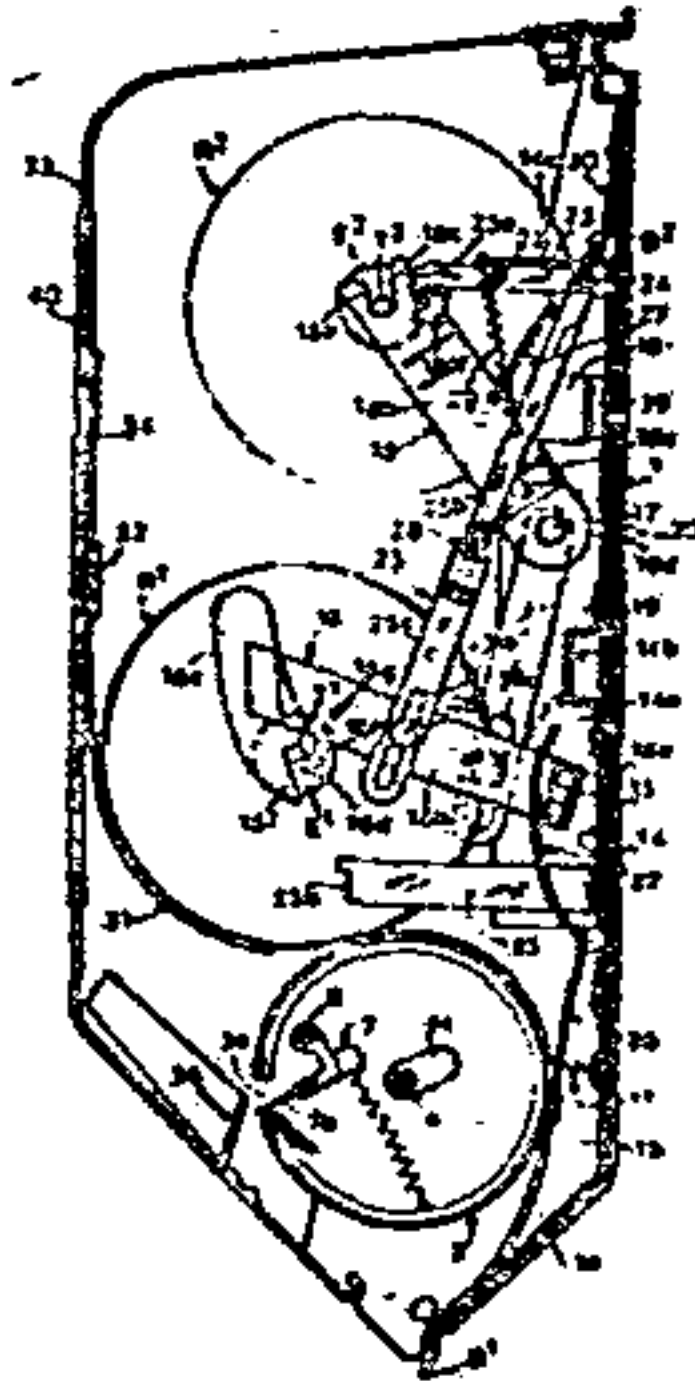
Family 3/49 - FAMPAT - ©Questel

Title

(FR2539293)

Apparatus for dispensing strips of wound material with a device for automatic replacement of the roll in use

Images



Publication data including kind & date

FR2539293	A1	1984-07-20	FR2539293
BR8400111	A	1984-08-21	BR8400111
ZA8400223	B	1984-09-26	ZA8400223
FR2539293	B1	1985-05-17	FR2539293
CA1230865	A	1987-12-29	CA1230865



Abstract

(FR2539293)

The subject of the invention relates to the technical sector of means for dispensing strips wound on reels. The apparatus is noteworthy in that it comprises two supports 16-18 for rolls R1-R2 mounted so as to pivot on a rigid structure 14 and connected to one another by a connecting rod 19; a mechanism associated with the two supports provides for the automatic and continuous transfer of the spare roll R2 in place of the roll in use, when the latter is almost entirely unwound, in order to dispense the strip of the spare roll, first simultaneously with the finishing strip of the roll in use, then alone, when the roll in use is empty. The apparatus applies mainly to any dispensing of paper, cotton wool or other wiping materials, which dispensing may or may not be associated with **cutting** means. <IMAGE>

Inventors

GRANGER MAURICE

Latest standardized assignees - inventors removed

GRANGER MAURICE

Publication dates

1984-07-20

1984-08-21

1984-09-26

1985-05-17

1987-12-29

Family 4/49 - FAMPAT - ©Questel

Title

(WO201363731)

Smart paper towel dispenser

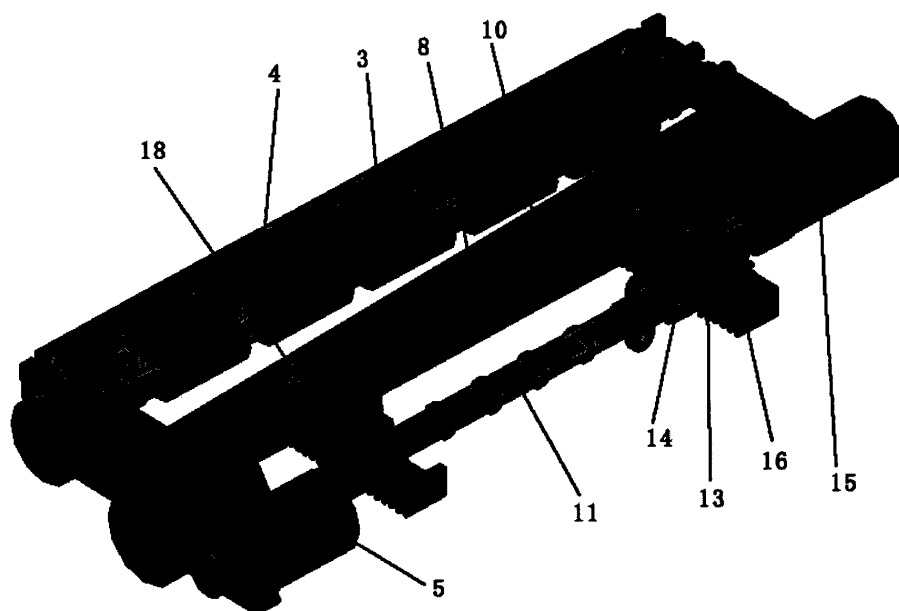
Images

图 3 / Fig. 3

Publication data including kind & date

CN102429606	A	2012-05-02	CN102429606
WO2013063731	A1	2013-05-10	WO201363731
CN102429606	B	2014-06-04	CN102429606B

**Abstract**

(WO201363731)

A smart paper towel dispenser comprises a casing (1), a paper feeding mechanism, and a paper **cutting** mechanism and a control circuit below the paper feeding mechanism. The paper feeding mechanism comprises a transmission shaft (3) and a driven shaft (4) closely fitting a side surface of the transmission shaft (3). The transmission shaft (3) is driven by a paper outputting motor (5). The paper **cutting** mechanism comprises a movable **cutter** (8), a still **cutter** (9), a **cutter** holder (10), and a drive shaft (11). The movable **cutter** (8) is mounted above the **cutter** holder (10). Several spring holes (12) are disposed longitudinally at a front end of the **cutter** holder (10). A spring is mounted in the spring hole (12) and fits a front end of the movable **cutter** (8). A rear end of the movable **cutter** (8) is fixed on the **cutter** holder (10). A rear end of the **cutter** holder (10) is fixedly connected to more than one rack (13). A pinion (14) fitting the rack (13) is disposed on the drive shaft (11). The drive shaft (11) is driven by a movable-**cutter** drive motor (15). One end of the movable **cutter** (8) and one end of the still **cutter** (9) are vertically staggered. The movable **cutter** (8) is located below the still **cutter** (9). The **cutting** edge of the movable **cutter** (8) and the **cutting** edge of the still **cutter** (9) are opposite to each other and form a fixed angle. The casing (1) is provided with a switch. The paper outputting motor (5), the movable-**cutter** drive motor (15), and the switch are connected to the control circuit. The smart paper towel dispenser can automatically feed paper and cut paper, so as to prevent direct contact between hands and the paper towel, achieving convenience and hygiene.

Inventors

XUE WENGUANG

Latest standardized assignees - inventors removed

HANGZHOU GOLDEN KEY TECHNOLOGY

Publication dates

2012-05-02

2013-05-10

2014-06-04

Family 5/49 - FAMPAT - ©Questel

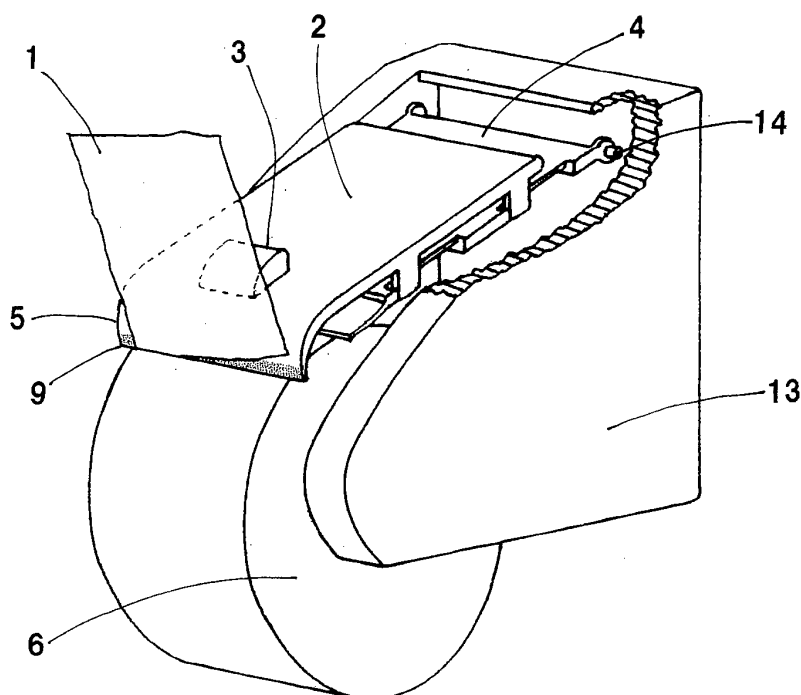
Title

(WO201647247)

Toilet paper holder

Images

1



Publication data including kind & date

JP2015027574	A	2015-02-12	JP2015027574
JP5742043	B2	2015-07-01	JP5742043
WO2016047247	A1	2016-03-31	WO201647247



Abstract

(WO201647247)

A toilet paper holder provided with upper and lower cover plates, wherein: a base board of the lower cover plate is pivotally supported by side boards; the front part of the lower cover plate is in the form of a thin plate the front end of which comes into contact with the main body of a paper roll; the upper cover plate is a base board provided with a colored blade edge; and, above the lower cover plate, the upper cover plate is coupled, in a forwardly movable manner, to the lower cover plate. To cut the paper (see Fig. 1), the blade edge of the upper cover plate moves forward, cuts the paper and then returns backward automatically. Since the lower cover plate presses the paper roll, the main body of the paper roll is prevented from reverse rotation and the cut paper edge remains as such on the front side of the blade edge in the paper roll. The cut paper edge that serves as a holding tab for the next use can be easily recognized simultaneously with the recognition of the blade edge.

Inventors

FUJIKAWA SHIGETARO

Publication dates

2015-02-12

2015-07-01

2016-03-31

Family 6/49 - FAMPAT - ©Questel

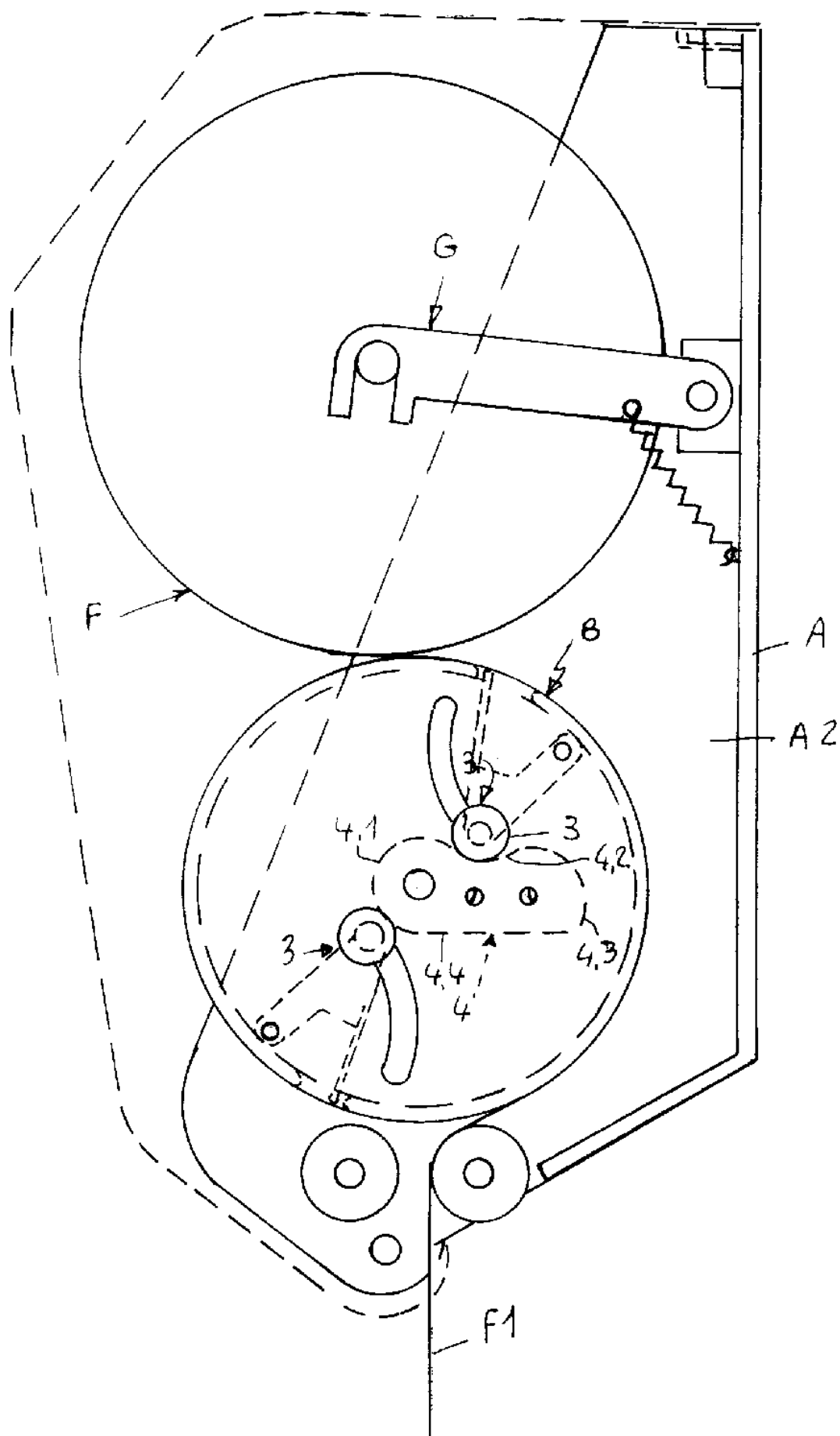
Title

(EP-526358)

Device for the distribution and simultaneously **cutting** of rolled up web material.

Images

FIG.1



EP0526358	A1	1993-02-03	EP-526358
FR2679887	A1	1993-02-05	FR2679887
FR2679887	B1	1993-10-22	FR2679887

**Abstract**

(EP-526358)

The apparatus for dispensing and simultaneously **cutting** rolled-up strips of material comprises a roll (F) of material mounted so as to rotate freely on a wall support (A), applied under pressure on a drum (B). The drum, which is hollow internally, receives a plurality of toothed **cutting** devices (C) associated with the drum and interacting with means external to the drum, when the drum is driven in rotation by traction on the material. Each **cutting** device is associated with a guiding roller (3) capable of interacting with a profiled cam (4) mounted on the shaft of the drum, thus allowing displacement of the blade. The blade-holder devices and the drum are arranged with means enabling one of the blades to be retracted inside the drum in order to make it passive, and thus to define lengths of strips of material to be cut which are variable according to requirements. <IMAGE>

Inventors

GRANGER MAURICE

Publication dates

1993-02-03

1993-02-05

1993-10-22

Family 7/49 - FAMPAT - ©Questel

Title

(EP-275806)

Cutting device for an apparatus which simultaneously dispenses and cuts off strips of coiled materials

Images

selon une angulation et correspondant chacune à deux demi-longueur du tambour, les dites lames fixées sur des portes-lames (24-25) orientées angulairement dans le tambour étant chacune associée à un galet suiveur (28-29) coopérant respectivement avec une came fixe (10-30) de même profil disposée sur chaque aile latérale du carter de l'appareil, lesdites cames (10-30) étant décalées angulairement pour permettre la sortie progressive et successive de chacune des lames et définir deux zones de coupe (ZC1, ZC2) de la bande de matériau à l'intérieur de l'appareil tout en obtenant qu'une seule ligne de coupe nette dudit matériau perpendiculaire à ses bords latéraux.

Inventors

GRANGER, MAURICE

Latest standardized assignees - inventors removed

GRANGER MAURICE

Publication dates

1988-07-01

1988-07-20

1988-07-27

1988-08-26

1989-03-31

1989-07-11

1990-04-27

1991-04-09

1992-03-18

1992-04-15

1992-04-23

1992-10-16

1993-04-28

1995-10-04

Family 8/49 - FAMPAT - ©Questel

Title

(EP-889700)

Apparatus for dispensing optionally folded wiping materials

Images

AT185258	T	1999-10-15	ATE185258				
DE69700601	D1	1999-11-11	DE69700601				
ES2137058	T3	1999-12-01	ES2137058				
GR3032108	T3	2000-03-31	GR3032108				
DK889700	T3	2000-04-17	DK-889700T				
DE69700601	T2	2000-05-04	DE69700601				

Abstract

(EP-889700)

ping material dispenser apparatus including a device enabling the paper strip from a reel to be dispensed in either of two modes, i.e. a first mode in which the paper strip is let out of the apparatus after every rotation cycle of a drum (4), and a second mode in which the paper strip is prevented from exiting the apparatus after every rotation cycle of the drum (4) until the user operates the mechanisms of the device, whereby said device acts as a position selecting means actively or passively engaging the drum (4).

Inventors

GRANGER MAURICE

Publication dates

1997-10-03

1997-10-09

1997-10-22

1997-10-23

1998-04-24

1999-01-13

1999-06-11

1999-10-06

1999-10-15

1999-11-11

1999-12-01

2000-03-31

2000-04-17

2000-05-04

Family 9/49 - FAMPAT - ©Questel

Title

(EP-889701)

Wiping material dispenser apparatus with a device for loading a spare roll

Images

DE69701188	D1	2000-02-24	DE69701188
ES2142669	T3	2000-04-16	ES2142669
PT889701	E	2000-06-30	PT-889701
DK889701	T3	2000-07-17	DK-889701T
DE69701188	T2	2000-08-17	DE69701188
GR3033145	T3	2000-08-31	GR3033145

**Abstract**

(EP-889701)

An apparatus including a loading device and a device for gripping and retaining the free end (B1) of a sheet wound into a spare roll extending from a transverse plate (15) and arranged in front of a drum over all or part of the length thereof. The gripping device is actuated by closing the cover of the apparatus or by a mechanism extending from the apparatus housing. The gripping device is substantially aligned with the gap between the drum (6) and a pressure element (10) so that the paper sheet from the spare roll may be inserted.

Inventors

GRANGER MAURICE

Publication dates

1997-10-03

1997-10-09

1997-10-22

1998-04-24

1999-01-13

2000-01-19

2000-02-15

2000-02-24

2000-04-16

2000-06-30

2000-07-17

2000-08-17

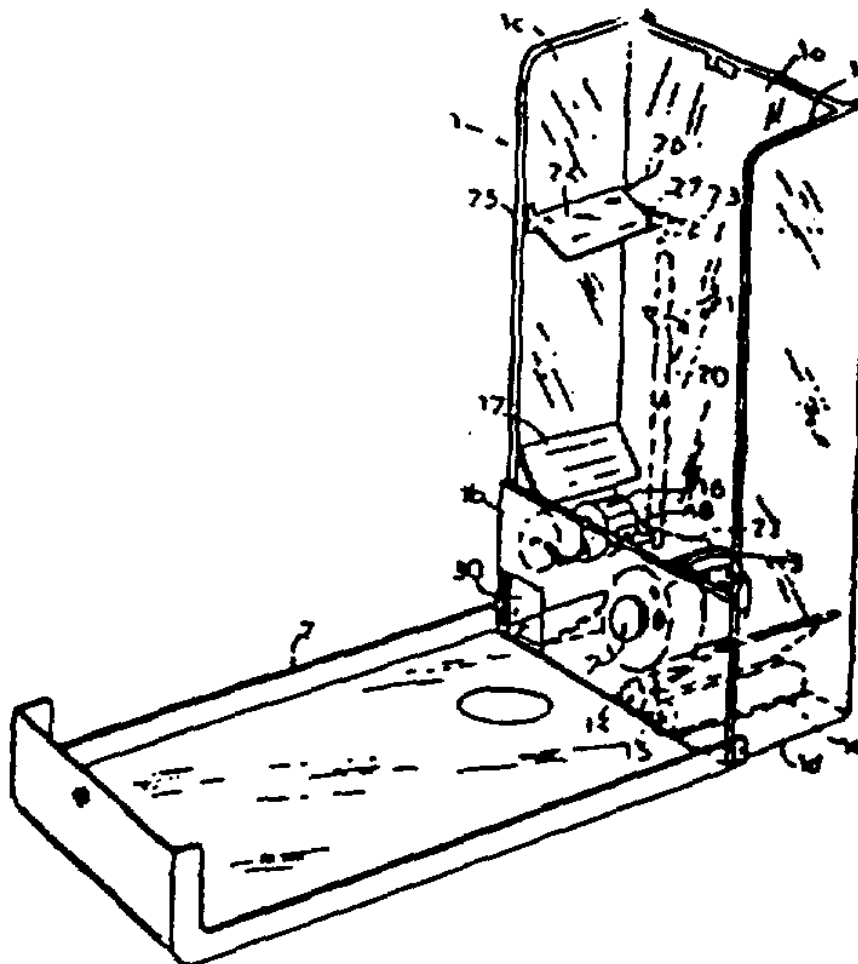
2000-08-31

Family 10/49 - FAMPAT - ©Questel

Title

(EP-206952)

Device for dispensing and **cutting** sheet material, with automatic roll change**Images**



Publication data including kind & date

GR861519	B	1986-10-10	GR-861519
FR2583729	A1	1986-12-26	FR2583729
EP0206952	A1	1986-12-30	EP-206952
KR19870000228	A	1987-02-17	KR19870000228
JPS6251535	A	1987-03-06	JP62051535
FR2587013	A2	1987-03-13	FR2587013
ES556283	A0	1987-04-16	ES-556283
ES8704845	A1	1987-04-16	ES8704845
DE206952	T1	1987-08-13	DE-206952T
FR2583729	B1	1987-09-18	FR2583729
FR2587013	B2	1987-12-31	FR2587013
OA8348	A	1988-02-29	OA---8348
EP0206952	B1	1989-10-25	EP-206952
AT47581	T	1989-11-15	ATE047581
DE3666577	D1	1989-11-30	DE3666577
KR940002599	B1	1994-03-26	KR940002599



Abstract

(EP-206952)

1.Apparatus for the simultaneous dispensing and **cutting** of webs of rolled materials including a casing (1) with front and rearward walls (1a - 1b), side walls (1c) and bottom wall (1d), with automatic changeover of the roll in use, of the type according to which the roll of material in use (R1) is applied in abutment directly onto a driving drum (3) provided with an externally collapsible **cutting** device (4), so that by a mere manual pull on the free web of material projecting out of an opening of the casing under the apparatus after rolling up of the material on the drum, it will be possible to dispense and to

cut automatically a web the length of which is approximately equal to the diameter of the drum, a spare roll (R2) being disposed above the roll in use (R1), waiting for said roll (R1) to be completely spent, with the possibility for the empty roll to be discharged into a storage container (30), said spare roll (R2) being placed on a supporting flap (24) the position of which is adjustable, said flap being linked hingedly and controlled by an assembly of transmission means (20) (35 - 40) and of interlocking means (29 - 32) in order to provide either the holding back of the spare roll, or the positioning thereof, automatically, in abutment on the drum (3) after the discharge of the nearly empty roll, (R1), said apparatus being characterized in that : - the roll (R1) in use, placed on the driving drum (3), is also abutted rotatably on a cylinder (16) which is in turn rotatable relative to the said front and rearward walls of the casing, said free web to be pulled projecting out of the opening of the casing after having been passed along between two idle rollers (14) and (15) ; - the roll in use (R1) accommodates within the core or spindle (9) thereof an urging means (29 - 37) imparting to said roll an urging force of constant magnitude directed downwardly in order to provide the discharge of this roll between the drum (3) and the cylinder (16), towards the storage container (30) ; - the said transmission and interlocking means are actuated by a control means which is controlled itself by the urging means (29 - 37).

Inventors

GRANGER, MAURICE

Latest standardized assignees - inventors removed

GRANGER MAURICE

Publication dates

1986-10-10
1986-12-26
1986-12-30
1987-02-17
1987-03-06
1987-03-13
1987-04-16
1987-04-16
1987-08-13
1987-09-18
1987-12-31
1988-02-29
1989-10-25
1989-11-15
1989-11-30
1994-03-26

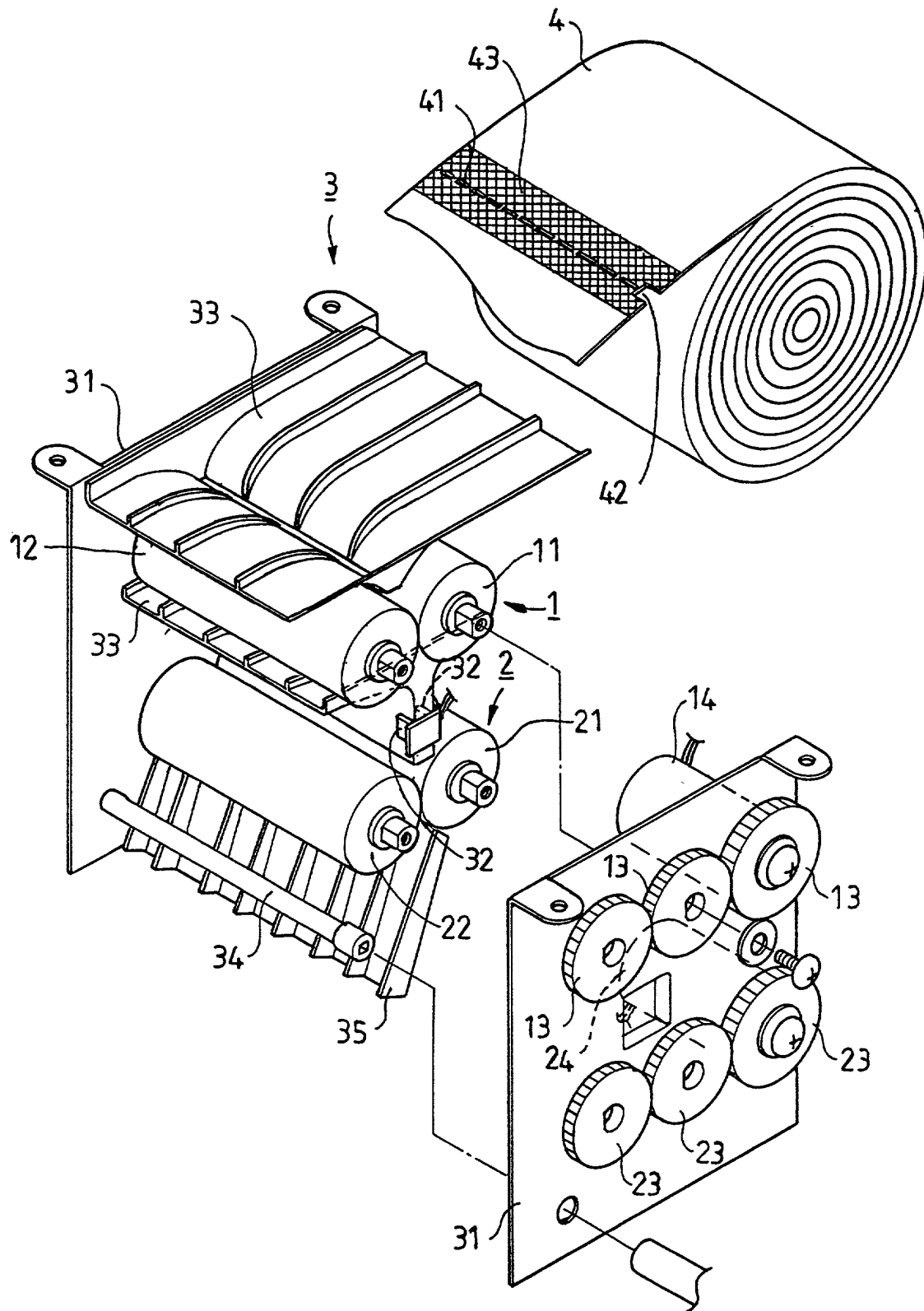
Family 11/49 - FAMPAT - ©Questel

Title

(US20050139627)

Paper towel and separation device of the paper

Images



Publication data including kind & date

TW492854	B	2002-07-01	TW-492854
JP2003024239	A	2003-01-28	JP2003024239
US2003019899	A1	2003-01-30	US20030019899
TW539544	B	2003-07-01	TW-539544
US2005139627	A1	2005-06-30	US20050139627
JP3671006	B2	2005-07-13	JP3671006



Abstract

(US20050139627)

A separation device of a paper towel includes a housing provided with two roll sets each having at least two rolls that may be driven by a power member to rotate relative to each other at an equal speed, so that a continuous paper towel may pass between the rolls of the two roll sets and may be pulled downward. The paper towel is provided with sensing marks at a predetermined length, so that when the sensing mark of the paper towel passes through a detection member, the detection member may detect passage of the sensing mark of the paper towel, and may send a signal, so that a rotation speed difference is produced between the rolls of the two roll sets, and the paper towel passing between the rolls of the two roll sets may be torn off.

Inventors

CHEN CHIEN-JUNG

LIN MING-CHUNG

Latest standardized assignees - inventors removed

YEN SUN TECHNOLOGY

Publication dates

2002-07-01

2003-01-28

2003-01-30

2003-07-01

2005-06-30

2005-07-13

Family 12/49 - FAMPAT - ©Questel

Title

(EP2164373)

Device for receiving end of use spools of wiping materials for a wiping material dispensing apparatus

Images

EP2157899	B1	2011-03-30	EP2157899				
AT503412	T	2011-04-15	ATE503412				
DE602008005880	D1	2011-05-12	DE602008005880				
ES2361713	T3	2011-06-21	ES2361713				
BRPI0806634	A2	2011-09-06	BR200806634				
BRPI0806634	A2	2011-09-06	BRPI0806634				
CN101616625	B	2011-11-02	CN101616625B				
RU2447824	C2	2012-04-20	RU2447824				
AU2008208666	B2	2013-07-18	AU2008208666				
AU2008208666	C1	2013-11-14	AU2008208666				

Abstract

(EP2164373)

The device of the invention is characterised in that it comprises an envelope fixed (10) about a drum (3) and partially surrounding said drum while leaving at the front portion a free access for the passage and introduction and outlet of a wiping material before and after a **cutting** operation, the function of said envelope being to protect the drum and its related **cutting** device and to ensure the passage of the strip of material during a **cutting** phase, wherein the outer portion of the envelope defines a bearing plane for a strip of material from a service roll in a finishing phase, said envelope including oblong openings (10d) formed along the envelope, the device being also characterised in that it comprises, behind the drum and the envelope (10), a device for receiving the service material strip in a finishing phase including two components (17-18), i.e. a stationary component (17) for receiving the spool of material in a finishing phase, and a component (18) that is mobile relative to the stationary component in order to allow or prevent, depending on the position thereof, the access to the stationary component (17), the mobile component being provided with a means (18c) in the form of teeth present in a number and in positions that correspond to the number of openings (10c) formed in the envelope, said teeth, depending on the position of the mobile component, bearing against the strip of material from the spool in the finishing phase which is itself bearing against the envelope (10), the device being further characterised in that, depending on the presence or absence of a material strip from the material spool in a finishing phase, the component (18) penetrates or does not penetrate into said envelope.

Inventors

GRANGER MAURICE

Latest standardized assignees - inventors removed

GRANGER MAURICE

Publication dates

2008-07-25

2008-07-31

2008-07-31

2008-09-12

2008-09-18

2009-03-06

2009-11-11

2009-12-24

2009-12-30

2010-01-14

2010-03-03

2010-03-24

2010-10-20

2011-02-01

2011-02-27

2011-03-30

2011-04-15

2011-05-12

2011-06-21

2011-09-06

2011-09-06

2011-11-02

2012-04-20

2013-07-18

2013-11-14

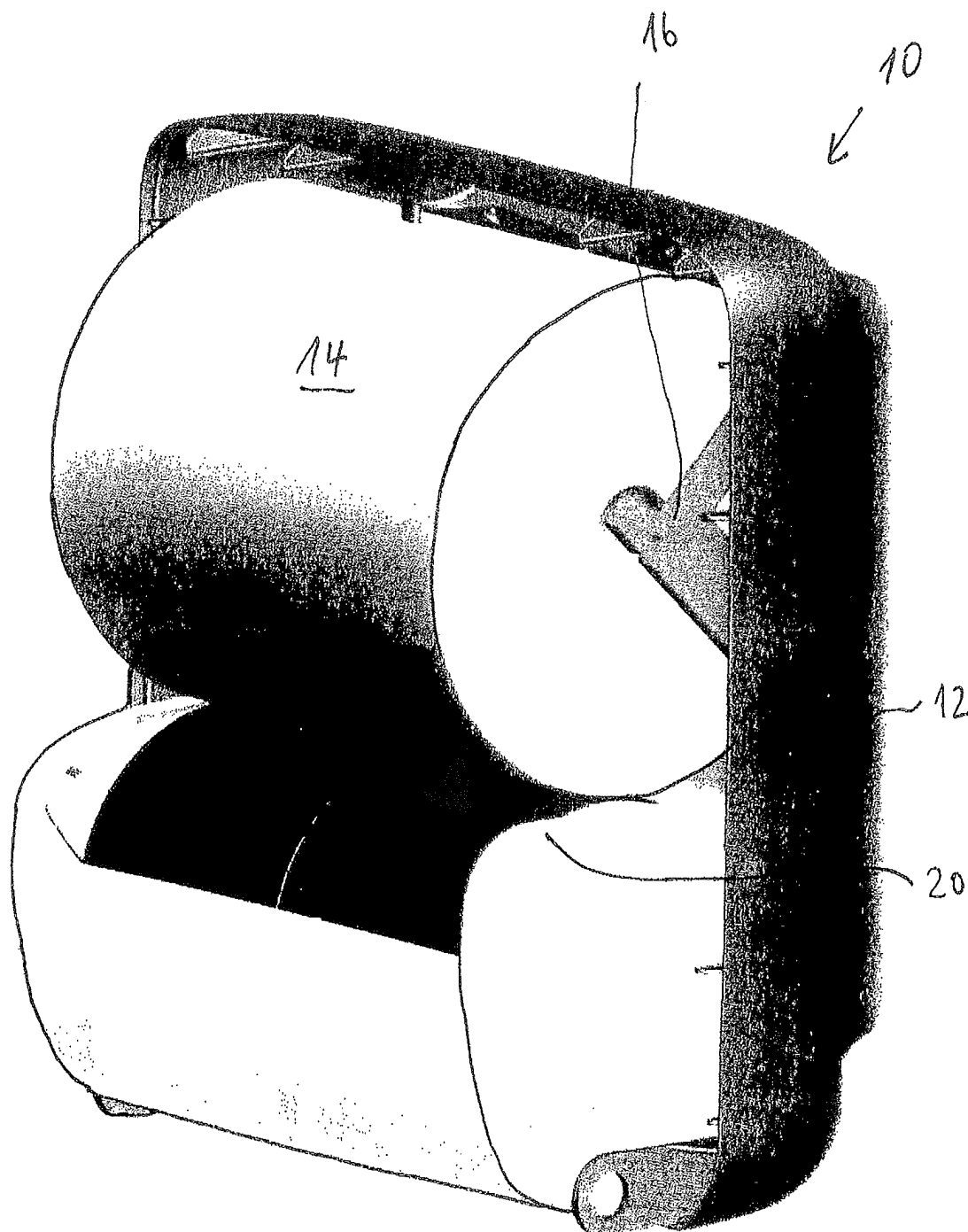
Family 13/49 - FAMPAT - ©Questel

Title

(EP2590543)

Dispenser

Images



Publication data including kind & date

WO2012003866	A1	2012-01-12	WO201203866
CN103068289	A	2013-04-24	CN103068289
EP2590543	A1	2013-05-15	EP2590543
US2013192437	A1	2013-08-01	US20130192437
RU2524910	C1	2014-08-10	RU2524910
EP2590543	B1	2014-11-12	EP2590543
US8943938	B2	2015-02-03	US8943938



Abstract

(EP2590543)

? dispenser for repeatedly discharging a predetermined length of a continuous web of material, especially paper towels, comprises a feed roller (14) with the continuous web of material wound thereon and a **cutting** drum (20) incorporating a **cutting** device (24, 32), the continuous web of material being directed in contact to at least part of the **cutting** drum (20). The

dispenser is characterized in that the **cutting** device (24, 32) comprises at least two **cutting** knives (24) with **cutting** blades (26), which **cutting** blades (26) are operable between an active, extended position projecting beyond the outer circumferential surface of the **cutting** drum (20), and an inactive retracted position; wherein each **cutting** knife (24) is provided with a cam follower (44) engaging a stationary cam path (46) of a camming mechanism (40).

Inventors

SAHLBERG FILIP

Latest standardized assignees - inventors removed

SCA HYGIENE PRODUCTS

Publication dates

2012-01-12

2013-04-24

2013-05-15

2013-08-01

2014-08-10

2014-11-12

2015-02-03

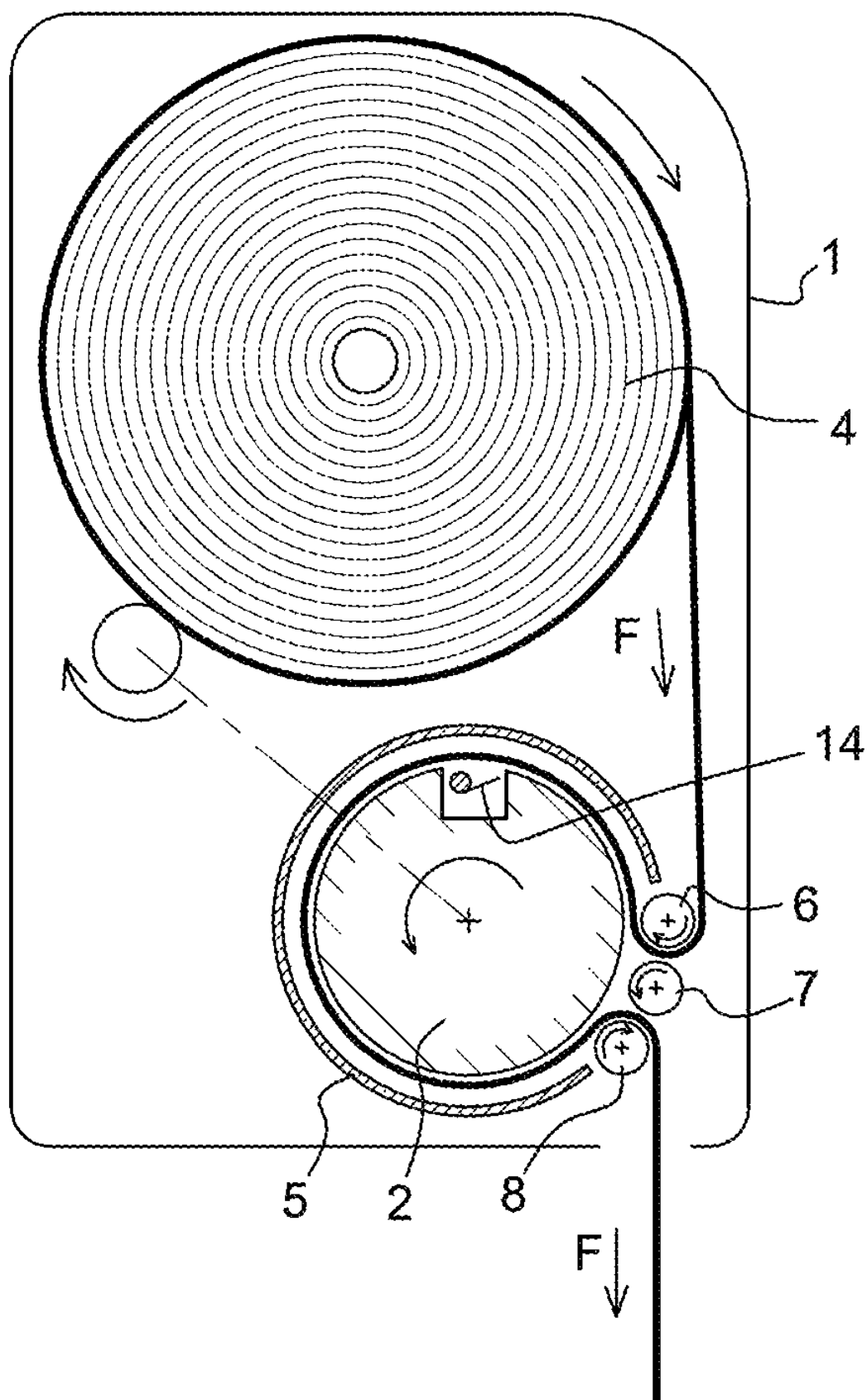
Family 14/49 - FAMPAT - ©Questel

Title

(EP2120663)

Wiping material dispensing apparatus with a device for loading strips of wiping material

Images

**Publication data including kind & date**

FR2911488	A1	2008-07-25	FR2911488
WO2008107608	A1	2008-09-12	WO2008107608
AU2008223678	A1	2008-09-12	AU2008223678
FR2911488			



	B1	2009-03-06	FR2911488				
MX2009007558	A	2009-08-13	MX2009007558				
EP2120663	A1	2009-11-25	EP2120663				
CN101631492	A	2010-01-20	CN101631492				
US2010044493	A1	2010-02-25	US20100044493				
RU2009131707	A	2011-02-27	RU2009131707				
EP2120663	B1	2011-05-18	EP2120663				
RU2419372	C2	2011-05-27	RU2419372				
CN101631492	B	2011-06-15	CN101631492B				
AT509561	T	2011-06-15	ATE509561				
ES2365190	T3	2011-09-26	ES2365190				
AU2008223678	B2	2013-01-17	AU2008223678				
US8376260	B2	2013-02-19	US8376260				
BRPI0806884	A2	2014-06-17	BR200806884				
BRPI0806884	A2	2014-06-17	BRPI0806884				
BRPI0806884	B1	2018-04-03	BRPI0806884				
BRPI0806884	B1	2018-04-03	BR200806884				

Abstract

(EP2120663)

The invention relates to a device for loading strips of wiping material for wiping material dispensing apparatuses, comprising a housing (1) receiving lateral flanges (1a) supporting a drum (2) including a **cutting** device and a strip of material (4) placed in an elevated position. The device is characterized in that it comprises a dual arrangement having a guide means concentric to said drum and defining with the latter a gap for the passage of the strip of material, and having at least two rollers (6 and 8) placed parallel to one another and mounted so as to rotate freely relative to the lateral flanges of the housing while being engaged by a gear (13) attached to the drum, and in that an intermediate means placed between the rollers (6 and 8) allows the strip of material to be inserted into the space formed between the cover and the drum, then exit toward the front of the apparatus.

Inventors

GRANGER MAURICE

Publication dates

2008-07-25

2008-09-12

2008-09-12

2009-03-06

2009-08-13

2009-11-25

2010-01-20

2010-02-25

2011-02-27

2011-05-18

2011-05-27

2011-06-15

2011-06-15

2011-09-26

2013-01-17

2013-02-19

2014-06-17

2014-06-17

2018-04-03

2018-04-03

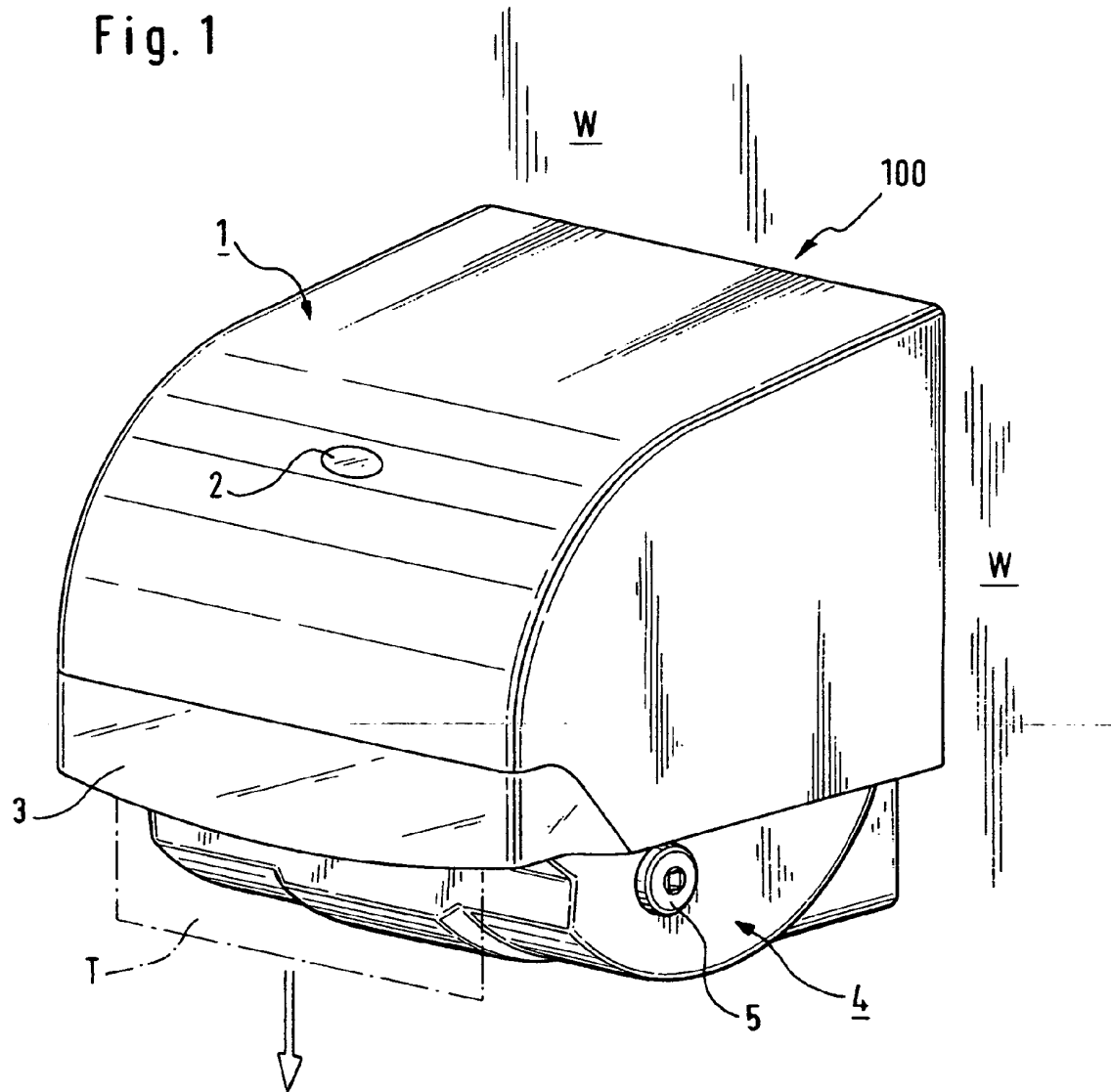
Family 15/49 - FAMPAT - ©Questel

Title

(EP1311182)

Dispenser for cleaning tissues

Images



Publication data including kind & date

EP1181884	A1	2002-02-27	EP1181884
WO200215763	A1	2002-02-28	WO200215763
AU8164601	A	2002-03-04	AU200181646
EP1311182	A1	2003-05-21	EP1311182
JP2004505743	A	2004-02-26	JP2004505743
EP1181884	B1	2007-11-14	EP1181884
AT377997	T	2007-11-15	ATE377997
DE50014784	D1	2007-12-27	DE50014784
CY1107153	T1	2012-10-24	CY1107153



Abstract

(EP1311182)

An electrically driven dispenser (100), in particular, for damp tissues (T), transports the above from a closed cassette (21), in a measured manner, between two rollers (11,30) into a manually withdrawable position. The drive (E) and control of the transport is achieved by the upper part (1) of the dispenser. The dispenser (100) is triggered by a proximity sensor (2). The individual portions of the damp tissue (T) are controlled by electro-optical sensors and light guides (L), whereby perforations (P) provided in the tissue (T) serve as guide sizes.

Inventors

BESEERER PATRICK

STUDER HANS-JOERG

Latest standardized assignees - inventors removed

HTS INTERNATIONAL TRADING

Publication dates

2002-02-27

2002-02-28

2002-03-04

2003-05-21

2004-02-26

2007-11-14

2007-11-15

2007-12-27

2012-10-24

Family 16/49 - FAMPAT - ©Questel

Title

(JP11123160)

Paper holder capable of **cutting** roll paper with one hand**Publication data including kind & date**[JPH11123160](#)

A

1999-05-11

JP11123160

**Abstract**

(JP11123160)

PROBLEM TO BE SOLVED: To cut/pull out roll paper even in a condition capable of using only one hand for a paper holder conventionally with the need of using both hands to cut/pull out the roll paper. SOLUTION: A second **cutting** edge 3 is provided on an upper side from the roll paper pressurizing action position (normally around the tip of a flap) of the flap 2 of this paper holder, a fold-over path is provided in a roll paper route in front of the second **cutting** edge, a roll paper pull-out standby receiving base 4 is provided between the second **cutting** edge and the fold-over path and a roll paper return stopper 5 is provided on the start of the receiving base.

Inventors

NAKANO YOSHITOSHI

Publication dates

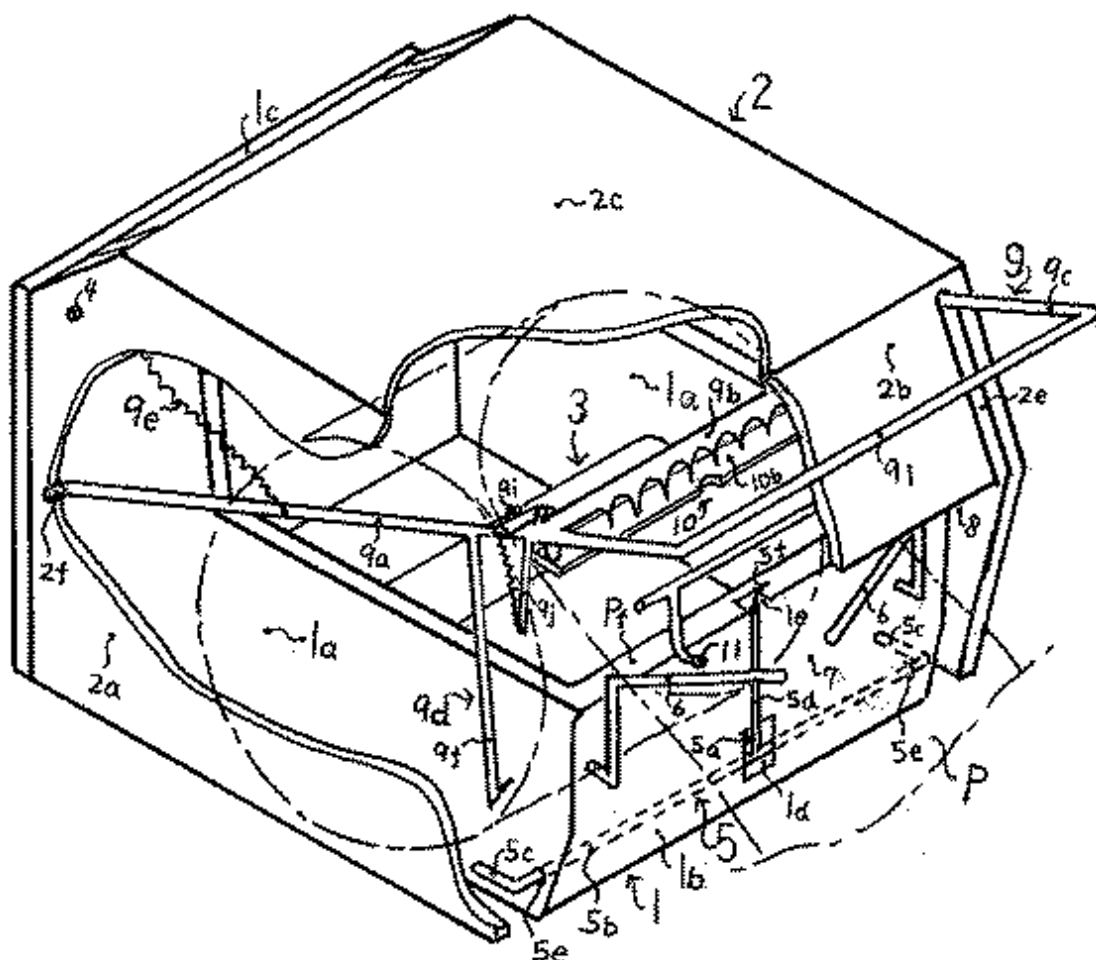
1999-05-11

Family 17/49 - FAMPAT - ©Questel

Title

(JP09253001)

Toilet paper **cutting** device**Images**



Publication data including kind & date

JPH09253001	A	1997-09-30	JP09253001
JP3826367	B2	2006-09-27	JP3826367



Abstract

(JP3826367)

PROBLEM TO BE SOLVED: To cut toilet paper and to project the paper bent for the next user just by the depressing operation of a one operation **cutting** lever. **SOLUTION:** When the **cutting** operation lever 9c is depressed, the paper present on a front wall part 1b is pressed by a paper pressing plate 10b and the paper is cut by a blade 9b. Accompanying it, the **cutting** end edge part Pf of the paper is detained to a hook 5f. Then, in the return process of the **cutting** operation lever 9c, the hook 5f to which the **cutting** end edge part Pf is detained is rotated to a front side and the **cutting** end edge part Pf is pulled out to the front side. At the time, the paper is bent in a triangular shape by a **cutting** end edge part presser 6. The hook 5f is returned leaving the bent **cutting** end edge part Pf on the front side and the blade 9b is returned as well.

Inventors

HATAYA SADAO

Publication dates

1997-09-30

2006-09-27

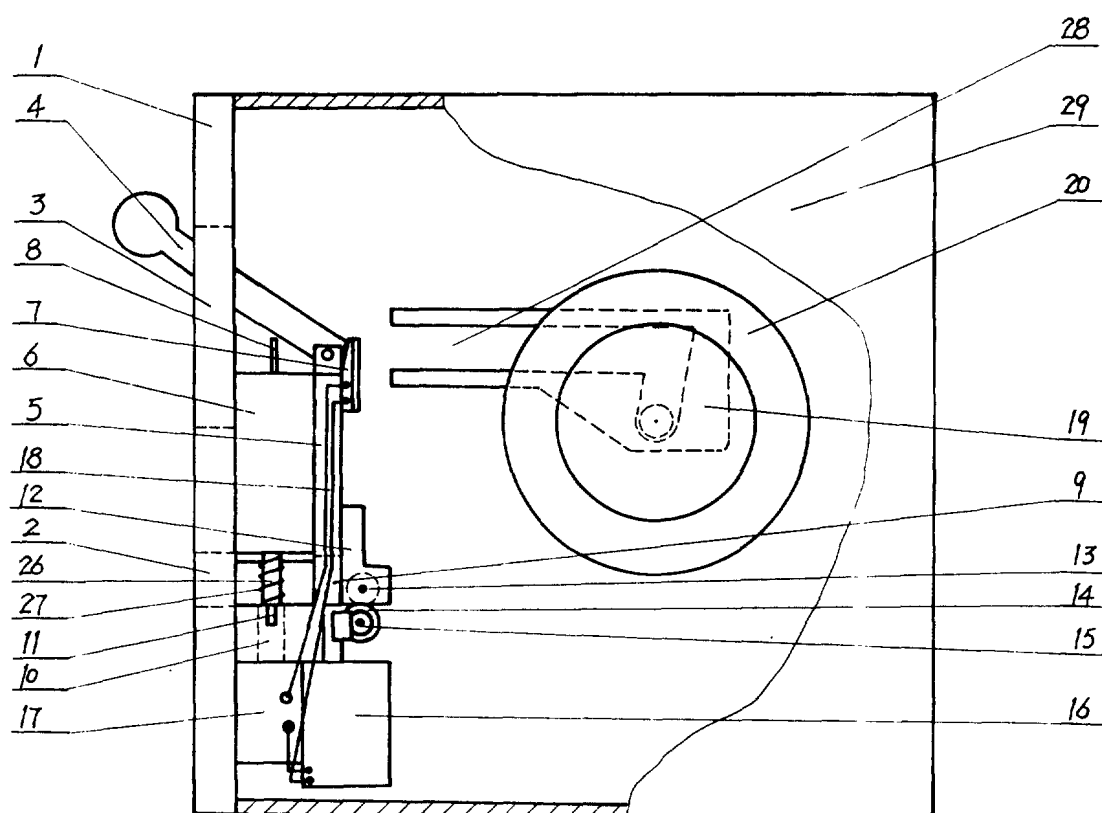
Family 18/49 - FAMPAT - ©Questel

Title

(CN2155794U)

Toilet paper **cutting** device

Images

**Publication data including kind & date**

CN2155794 Y 1994-02-16 CN2155794U

**Abstract**

(CN2155794U)

The utility model relates to a toilet paper **cutting** device belonging to the class of daily sanitary accessories, particularly a reel toilet paper rationing and **cutting** device. A paper outlet and a shifting slot are arranged on a box cover, a guide rail plate is positioned on the inner surface of the box cover, a knife frame is arranged in the **cutting** device, an operating bar and a switch are arranged on the **cutting** device, the outside of the **cutting** device is provided with a driven roller and a driving roller with a worm wheel, the middle lower part of the **cutting** device is provided with a paper discharging slot, the inner bottom of the **cutting** device is provided with a lower knife slot, and the bottom of the **cutting** device is provided with a worm motor and a power supply which are matched with a mandrel installed on two axle seats on two inner walls of a box body. The **cutting** device can effectively solve the **cutting** problem of rationing of toilet paper according to needs and moisture-proof health. The utility model can be arranged in a wall hole of the toilet or hung on walls. The utility model has the advantages of elegant appearance, convenient operation, and low manufacture cost.

Inventors

RONGLIN WANG

LIJUN ZHANG

Publication dates

1994-02-16

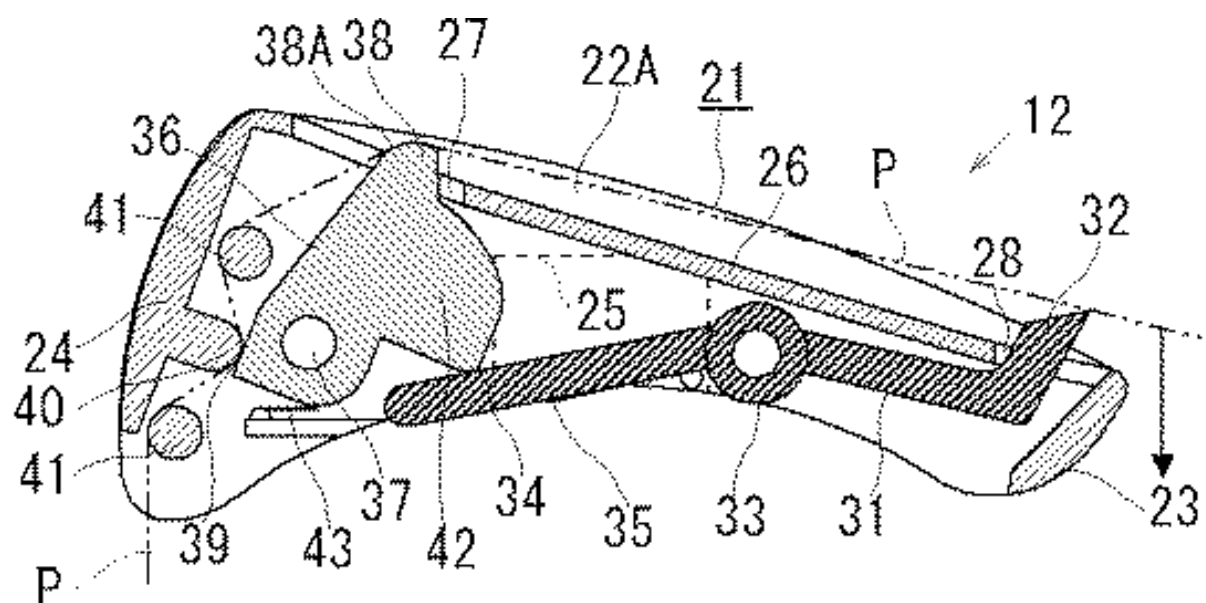
Family 19/49 - FAMPAT - ©Questel

Title

(JP2013132352)

Paper holder

Images

**Publication data including kind & date**[JP2013132352](#)

A 2013-07-08 JP2013132352

[JP5799448](#)

B2 2015-10-28 JP5799448

**Abstract**

(JP5799448)

PROBLEM TO BE SOLVED: To provide a paper holder which has sufficient safeness and permits paper to be cut simply and well by a single hand. **SOLUTION:** An extension opening 27 and a wall portion 26 are provided to the inside of a frame body 21 in a **cutting** mechanism portion 12 of the paper holder, a movable blade 31 provided with a **cutting** edge 32 and a rotating shaft 33 is freely turnably pivoted in the frame body 21, and a cam member 36 provided with a butting portion 38 against which the paper P is abutted and a pressing portion 39 pressing the paper P is freely turnably attached to the inside of the frame body 21. In addition, a pressing portion 42 is provided in a cam member 36 and an operating portion 34 is provided in a base end of the movable blade 31 in a way that the paper P abuts against the butting portion 38, the cam member 36 rotates, the pressing portion 39 fixes the paper P, the pressing portion 42 presses the operating portion 34, the movable blade 31 rotates, and the **cutting** edge 32 emerges onto the outside surface of the wall portion 26.

Inventors

MIURA ISAO

ARIAKE TOSHIMASA

HAYASHIDA RYOTA

HANECHI SHINGO

Latest standardized assignees - inventors removed

ARON KASEI

Publication dates

2013-07-08

2015-10-28

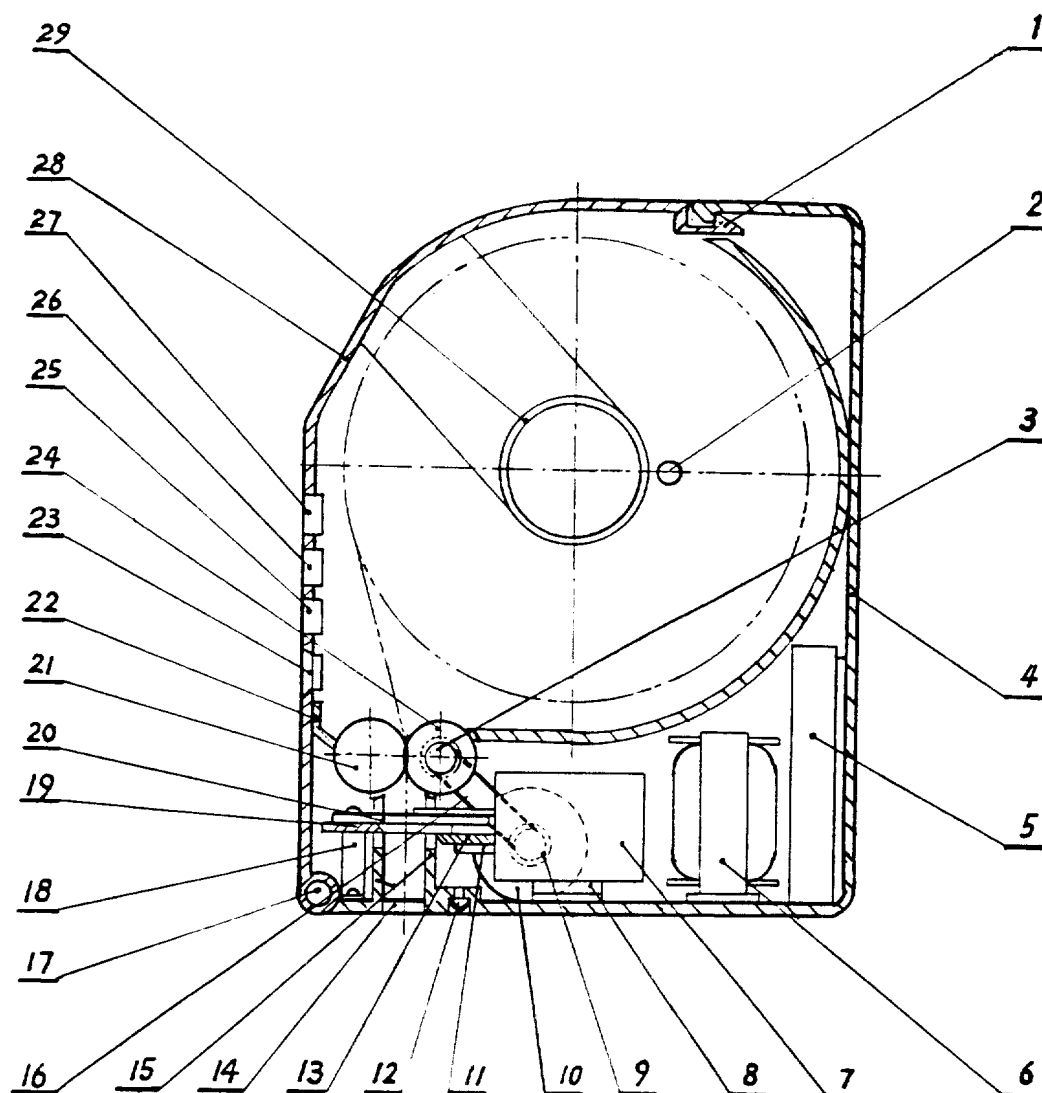
Family 20/49 - FAMPAT - ©Questel

Title

(CN2202493U)

Automatic feeding paper **cutter**

Images

**Publication data including kind & date**

CN2202493

Y

1995-07-05

CN2202493U

**Abstract**

(CN2202493U)

The utility model discloses an automatic feeding paper **cutter**, belonging to the field of daily life articles. The utility model is composed of a casing, a paper feeding part, a paper **cutting** part, and a control part, wherein, the paper feeding part comprises a driving wheel fixed on the casing, and a driven wheel which is tangent to the driving wheel and a motor. The paper **cutting** part comprises a slipway which is fixed on the casing, a fixed blade, a movable blade, and a movable blade driver, wherein, the slipway on the fixed blade is connected with the movable blade in a slide mode. The utility model adopts an inductive control. The utility model has the advantages of automatic paper feeding and paper **cutting**, paperless prompt, safety, sanitation, convenience, and paper saving; besides, the utility model can effectively prevent germ infection and spread. The utility model can be widely used in public places, such as hotels, restaurants, hospitals, stations, airports, sound and dance halls, etc. and families.

Inventors

MAOXI WANG

GUOFU YU

YUCHANG LIANG

Publication dates

1995-07-05

DK164767	B	1992-08-17	DK-164767				
EP0375695	B1	1992-10-28	EP-375695				
AT81760	T	1992-11-15	ATE081760				
DE3875621	D1	1992-12-03	DE3875621				
DK164767	C	1992-12-28	DK-164767C				

Abstract

(EP-375695)

A paper dispenser is furnished with one or more turnable or tiltable tearing off means (6), equipped with zagged edges (7).When inactive the edge (7) is held by a spring (8) or by force of gravity in an innocuous position.As a drawing force is applied to the paper web coming out of the dispenser, the tearing off means (6) is turned or tilted so that the zags of the edge (7) get in contact with the paper web.Since that is torn off the zagged edge (7) returns to its shielded position.The tearing off means (6) can be directly actuated by the paper web, or via an intermediate element (9).

Inventors

METSASERLA OY

Latest standardized assignees - inventors removed

METSASERLA

Publication dates

0

1987-07-15

1989-01-26

1989-02-20

1989-12-28

1990-01-12

1990-01-12

1990-01-15

1990-01-15

1990-07-04

1990-11-26

1991-03-06

1991-12-03

1992-08-17

1992-10-28

1992-11-15

1992-12-03

1992-12-28

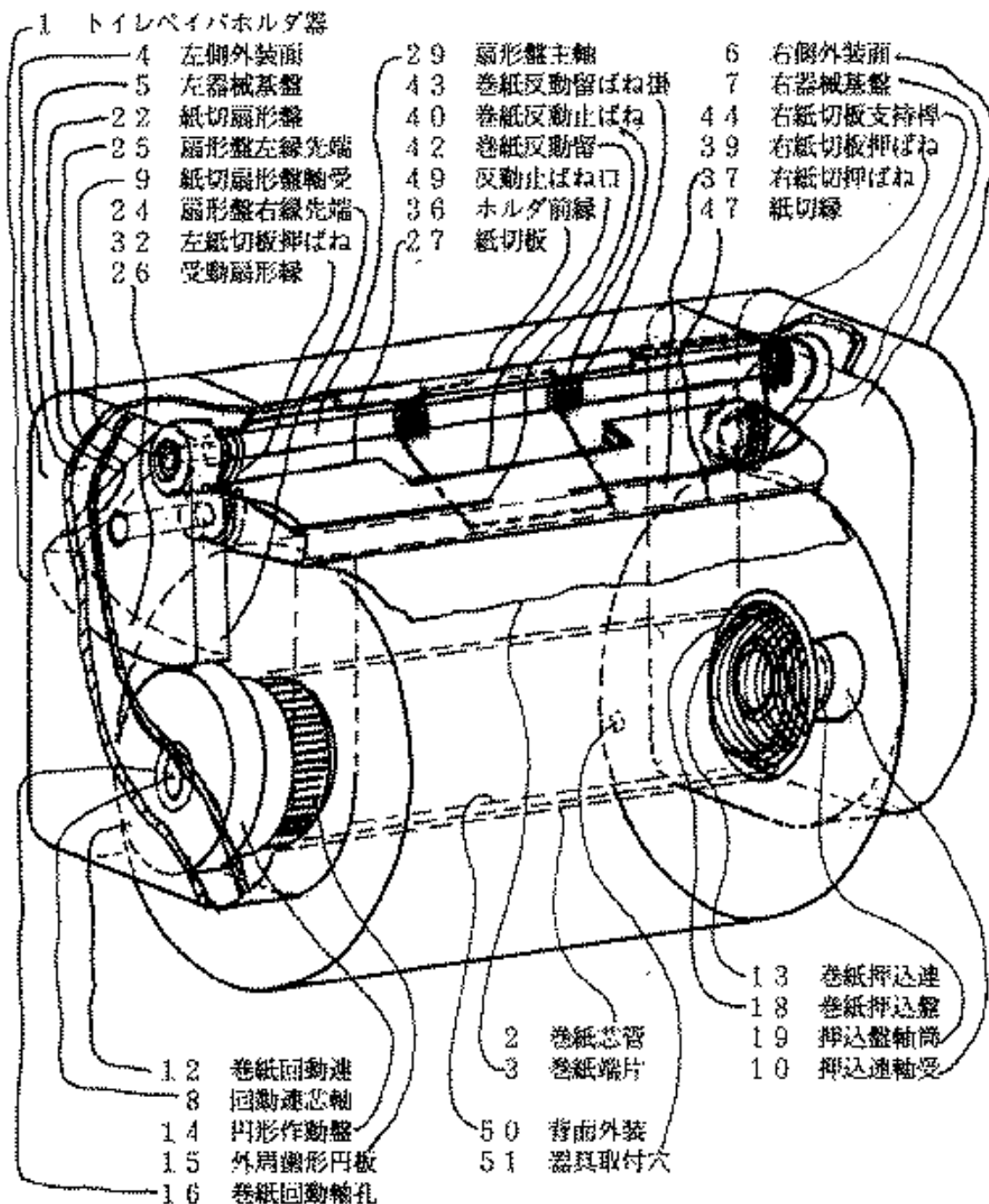
Family 22/49 - FAMPAT - ©Questel

Title

(JP2013000568)

Toilet paper holder

Images



Publication data including kind & date

JP2013000568

A 2013-01-07 JP2013000568

JP5641480

B2 2014-12-17 JP5641480



Abstract

(JP5641480)

PROBLEM TO BE SOLVED: To draw a short piece of rolled paper by a simple mechanism and cleanly leave it for next use to solve the problem that when an ordinary toilet paper holder is used, its rolled paper is manually rotated, drawn to an arbitrary length and used by **cutting** with a paper **cutting** plate, but the paper often remains disordered after drawing and usage. **SOLUTION:** When the toilet paper holder is used, the paper **cutting** plate protrudes when a short piece of paper left unused after previous use is drawn and when the short piece of paper is separated by **cutting**, the paper **cutting** plate returns to the original position. Accordingly, the paper short piece remains at the position where the paper **cutting** plate protrudes so as to prepare for next use.

Inventors

MIYANAGA TEIZO

Publication dates

2013-01-07

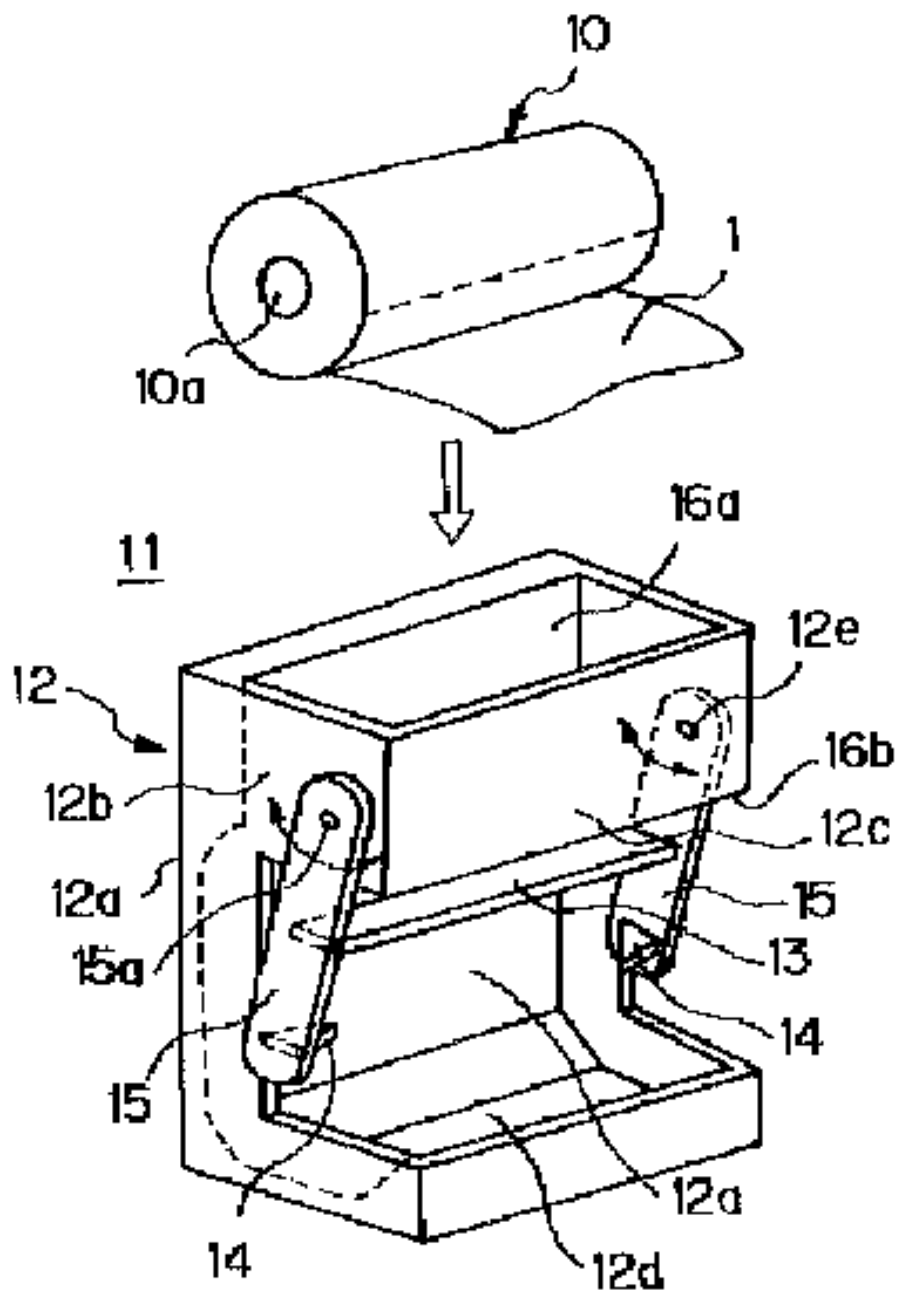
2014-12-17

Family 23/49 - FAMPAT - ©Questel

Title

(JP10024937)

Sheet roll holder

Images

[JP2863735](#)

B2 1999-03-03 JP2863735

Abstract

(JP2863735)

PROBLEM TO BE SOLVED: To prevent a sheet roll from running out in a sheet roll holder by feeding/discharging the sheet roll with simple operation with sheet rolls held in two upper and lower stages within a holder body.**SOLUTION:** A sheet roll holder includes a holder body 12 for holding sheet rolls comprising a plurality of longitudinally connected sheets which are rolled on two vertical stages at an upper waiting position and a lower use position, and a swing lever 15 which holds an upper locking member 13 for locking a sheet part of the sheet roll 10 at the waiting position and a lower locking member 14 for locking a hollow part of a core 10a of the sheet roll and displaces both locking members in an unlocking direction for moving and discharging the sheet roll at the use position while it is swingably attached to the holder body 12 which causes the sheet roll at the waiting position to drop to the use position by its weight.

Inventors

NAGANO JUJI

Latest standardized assignees - inventors removed

TOOYO

Publication dates

1998-01-27

1999-03-03

Family 24/49 - FAMPAT - ©Questel

Title

(EP-700263)

Paper roll holder with brake for dispensing use

Images

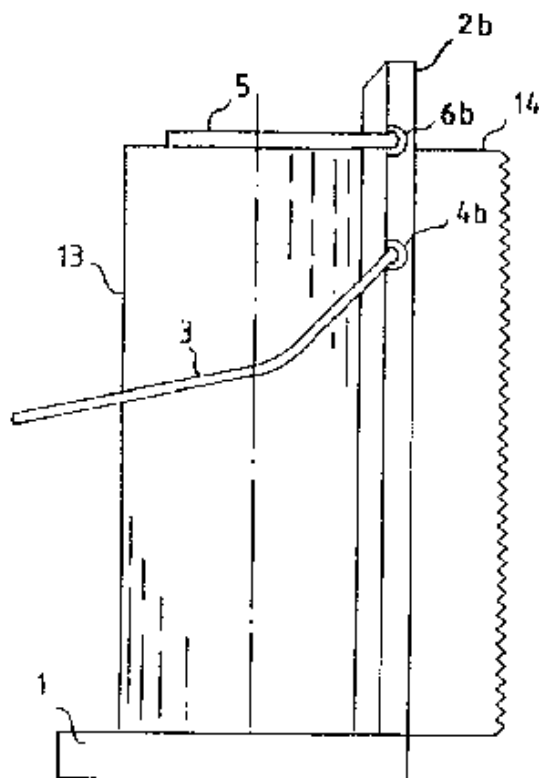


FIG 1

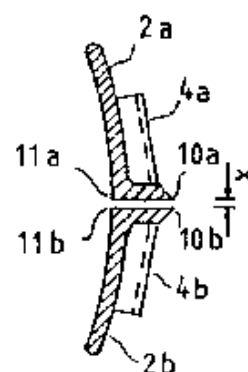


FIG 3

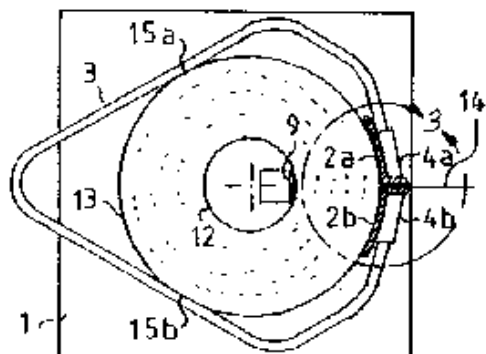


FIG 2A

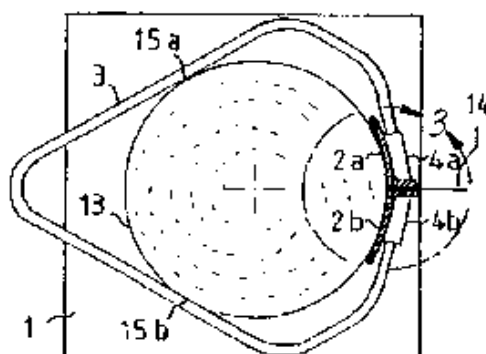


FIG 2B

Publication data including kind & date

FI932362	A0	1993-05-25	FI9302362
FI92461	B	1994-08-15	FI--92461
FI92461	C	1994-11-25	FI--92461
WO9427483	A1	1994-12-08	WO9427483
EP0700263	A1	1996-03-13	EP-700263
US5788136	A	1998-08-04	US5788136
EP0700263	B1	1998-11-25	EP-700263
AT173594	T	1998-12-15	ATE173594
DE69414843	D1	1999-01-07	DE69414843
DE69414843	T2	1999-04-22	DE69414843



Abstract

(EP-700263)

The invention relates to a paper roll holder with brake for dispensing use of paper rolls or the like. The paper roll holder comprises a heavy base (1) to which two column-like parts (2a) and (2b) are fixed, against which the paper roll rests and in between which the paper runs and which at their ends have suitably shaped **cutting** edges or serration, if the paper web is not perforated. A ring and wedge-shaped part (3) as well as a cover (5) with a spring (7) fixed to it are mounted in bearings to parts (2a) and (2b) and a spring (9) fixed to the base are all pressing the paper roll against the column-like parts (2a) and (2b). The form, roughness and weight of parts (3) and (5) and the spring forces of springs (7) and (9) are chosen so that by pulling the paper it easily unwinds but the paper breaks off with a little jerk using only one hand. In the roll holder also rolls without core can be used and then springs are not needed, or the holder can be built without the ring-shaped part (3), in which case only springs (7) and (9) press the paper roll against parts (2a) and (2b). The holder is normally placed on the table but can also by transforming the base be fixed to the wall.

Inventors

OTHMAN SVEN-IVAR VALDEMAR

Publication dates

1993-05-25

1994-08-15

1994-11-25

1994-12-08

1996-03-13

1998-08-04

1998-11-25

1998-12-15

1999-01-07

1999-04-22

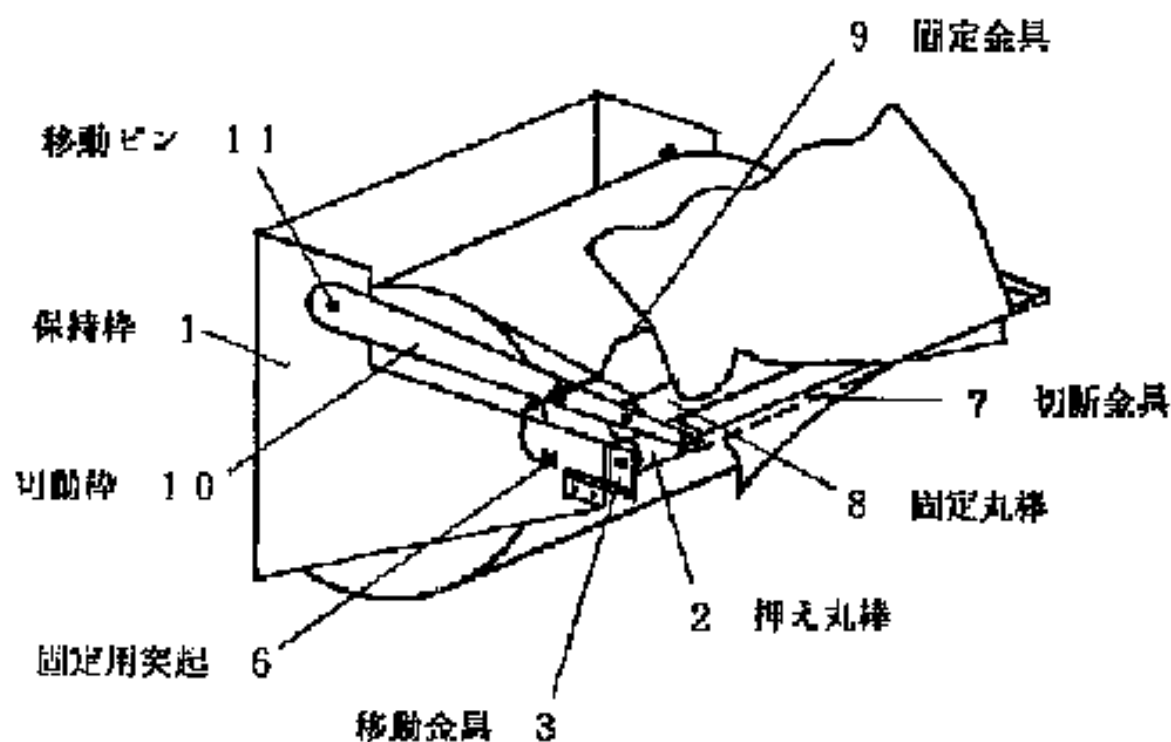
Family 25/49 - FAMPAT - ©Questel

Title

(JP10117965)

Toilet paper holder enabling the tearing-out of paper to desired length by one hand

Images



Publication data including kind & date

[JPH10117965](#)

A 1998-05-12 JP10117965



Abstract

(JP10117965)

PROBLEM TO BE SOLVED: To enable the tearing out of a desired amount of paper only by one hand by pushing up a metal fixture with the paper when drawing and lifting it and at this time, simultaneously tearing it out while pinching it between a holding round rod and a stationary round rod. **SOLUTION:** When paper is in standby condition before being taken out, the tip of a metal fixture 9 is positioned as not contacting with a projection 6 for fixing. When the paper is drawn and lifted, the fixture 9 is heaved by the paper and its 9 tip is rotated and hitched at the projection 6 to cause a movable frame 10 to be pressed to a holder frame 1. Thereby the paper positioned between a holding round rod 2 and stationary

round rod 8 is pressed by the rod 2 to the rod 8 so that a stopped condition is generated. The lifted paper touches a tearing metal fixture 7 and is torn out. When the torn paper is removed, the fixture 9 is returned to the original state as set off from the projection.

Inventors

SHIMURA NOBORU

Publication dates

1998-05-12

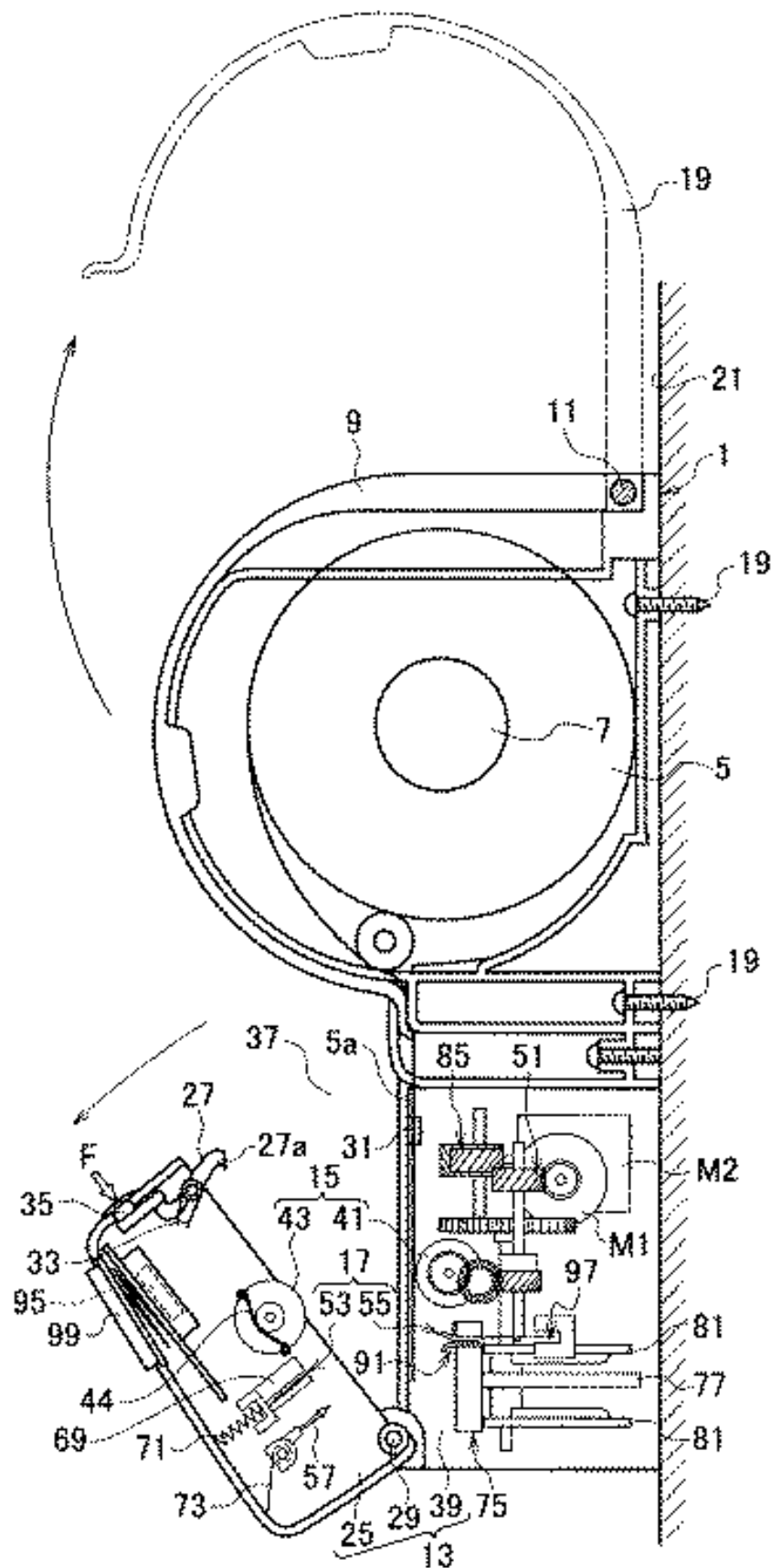
Family 26/49 - FAMPAT - ©Questel

Title

(JP2006102215)

Dispenser for roll paper

Images



Publication data including kind & date

JP2006102215

A 2006-04-20 JP2006102215



Abstract

(JP2006102215)

PROBLEM TO BE SOLVED: To surely and quickly cut feeble toilet paper or the like in a single forward stroke.

SOLUTION: This dispenser is provided with at least a feed means 15 downward feeding a paper part 5a fed from roll paper 5 by a predetermined length and a **cutting** means 17 **cutting** the paper part 5a fed from the feed means 15; the **cutting**

means 17 is composed of a fixed blade 53 provided in a fixed case 23, a roll paper receiver member 69, a movable blade 55 provided in a movable case 25 turnable to a set position integrated with the fixed case 23 and a standby position, and a roll paper pushing face 73 clamping the paper part 5b between itself and a receiving face 69b of the roll paper receiver member 69; and either one edge part 63 of the movable blade 55 or the fixed blade 53 is provided with a plurality of angle-shape projecting teeth 65 restricting the movement of the paper part 5a by sticking into the paper part 5a.

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Inventors

OKADA HIDEMI

Publication dates

2006-04-20

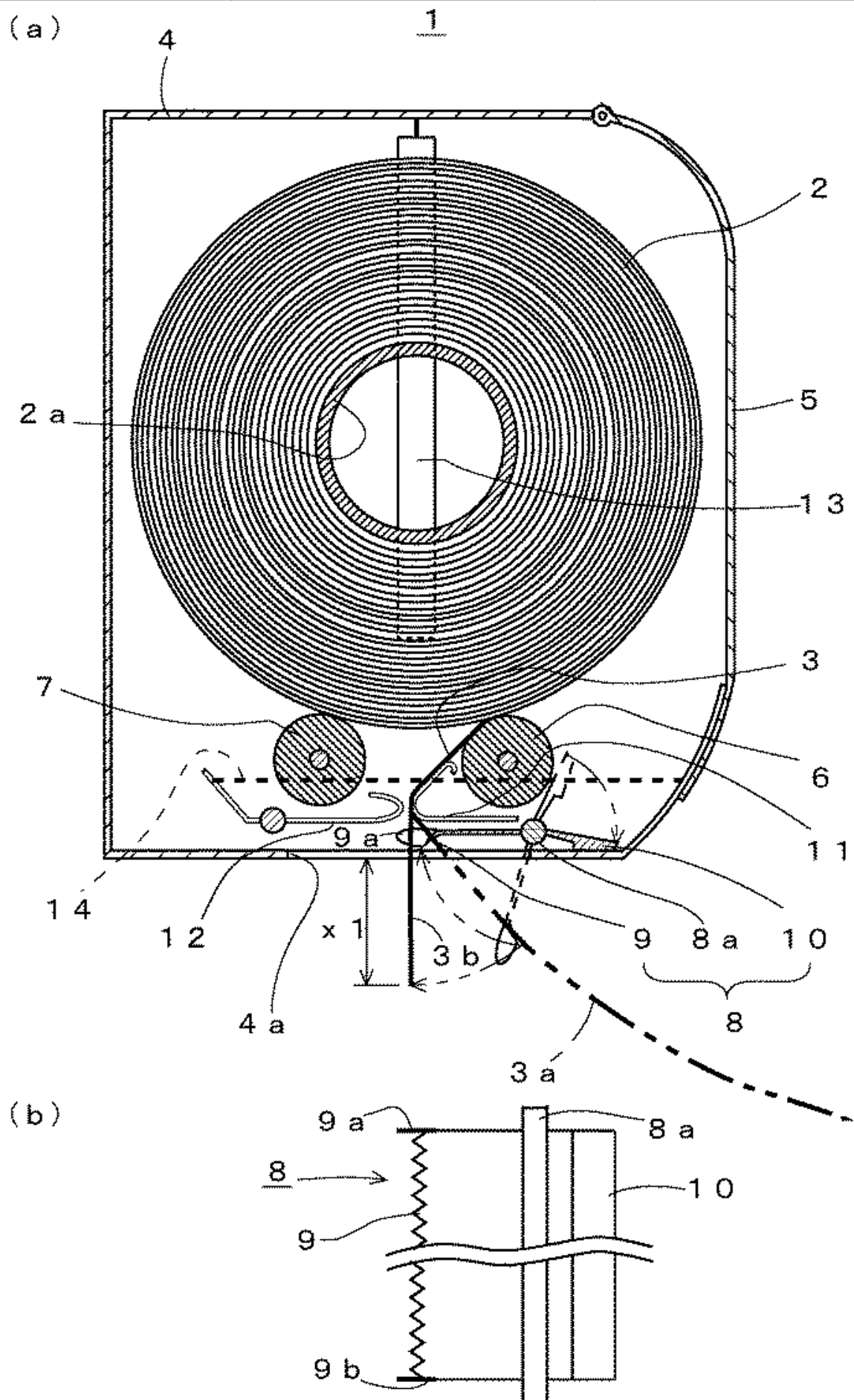
Family 27/49 - FAMPAT - ©Questel

Title

(JP2011036604)

Toilet paper holder

Images



Publication data including kind & date

JP4415064

B1 2010-02-17

JP4415064

JP2011036604

A 2011-02-24

JP2011036604



Abstract

(JP2011036604)

PROBLEM TO BE SOLVED: To provide a toilet paper holder for safely and easily performing the storage operation and draw-out operation of a toilet paper roll.

SOLUTION: The toilet paper roll 2 with toilet paper 3 wound therein is easily and safely stored in a case 4 only by placing the roll on two rollers 6, 7 in either winding direction. A cutter 8 is the movable cutter 8 having a cutting blade 9 for cutting the toilet paper 3 to be drawn out of the case 4 from a draw-out port 4a after guided by adjustment plates 11, 12. The cutting blade 9 is made standby at a place above the position of a lower end suspending from the draw-out port 4a after cutting. Then, when the toilet paper 3 is used, the lower end of the toilet paper 3 is easily and safely grasped, and then, drawn out.

COPYRIGHT: (C)2011,JPO&INPIT

Inventors

IIMORI HISATO

Publication dates

2010-02-17

2011-02-24

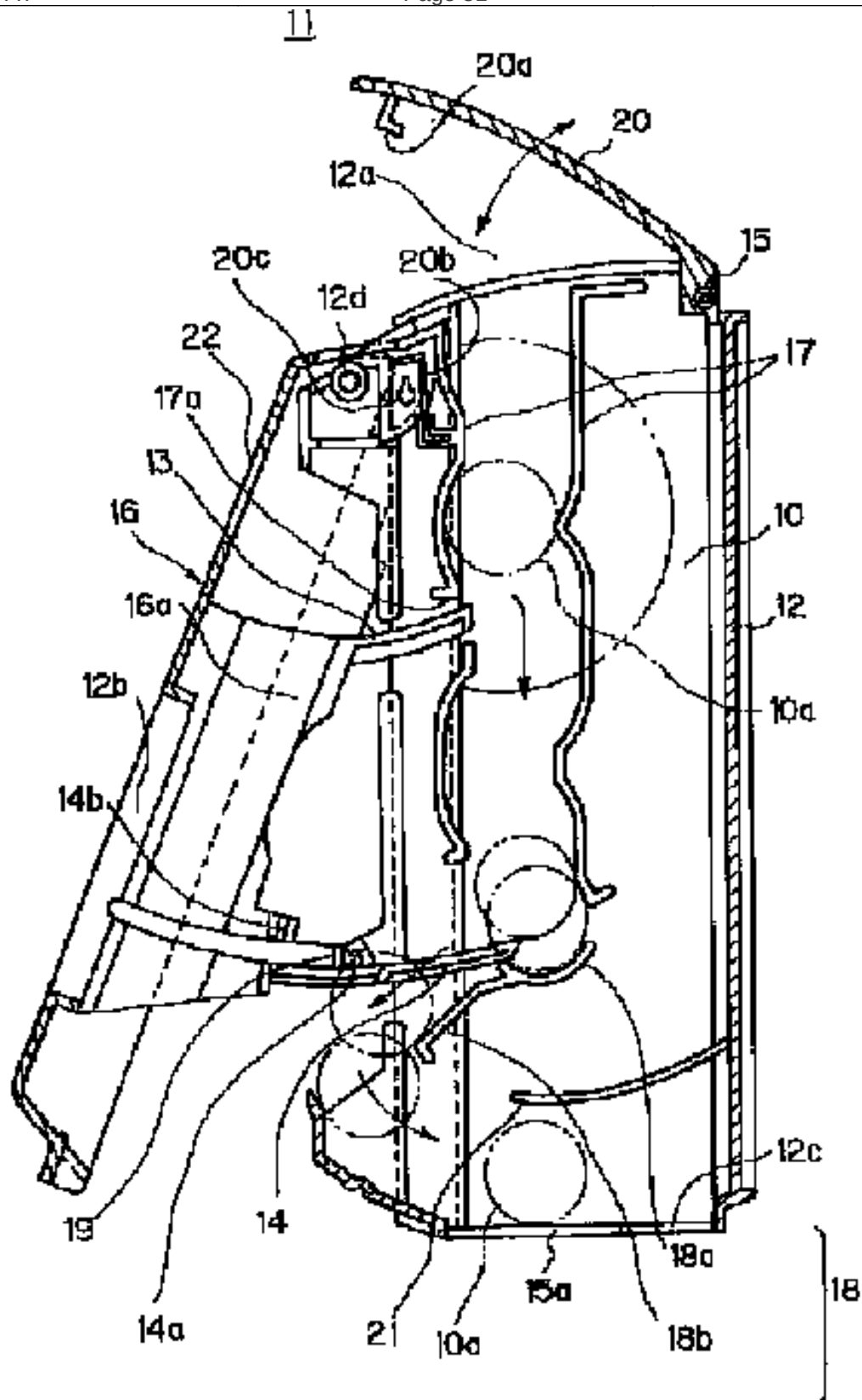
Family 28/49 - FAMPAT - ©Questel

Title

(JP10014818)

Sheet roll holder

Images



Publication data including kind & date

JPH1014818

A 1998-01-20 JP10014818

JP3005471

B2 2000-01-31 JP3005471



Abstract

(JP3005471)

PROBLEM TO BE SOLVED: To load and unload a toilet-seat sheet roll easily and smoothly through a simple operation by displacing locking members in the unlocking direction so that the toilet seat sheet roll in a service position is unloaded forward, and causing the toilet seat roll in a waiting position to drop down to the service position by gravity.SOLUTION: A toilet-seat sheet roll holder 11 is provided with a pair of right and left core guides 17 that guide both ends of the core 10a of each toilet seat sheet roll almost perpendicularly to both of the inside walls of a holder main body 12 holding the toilet seat

sheet rolls 10 in two of upper and lower stages, and the cores 10a of the toilet seat sheet rolls 10 guided by the core guides 17 are locked in a waiting position and in a service position by upper 13 and lower 14 locking members. By displacing the locking members 13, 14 in an unlocking direction, the toilet seat sheet roll 10 in the service position is moved forward and unloaded, while the toilet seat sheet roll 10 in the waiting position is dropped to the service position by its own weight.

Inventors

NAGANO YUJI

Latest standardized assignees - inventors removed

TOYO

Publication dates

1998-01-20

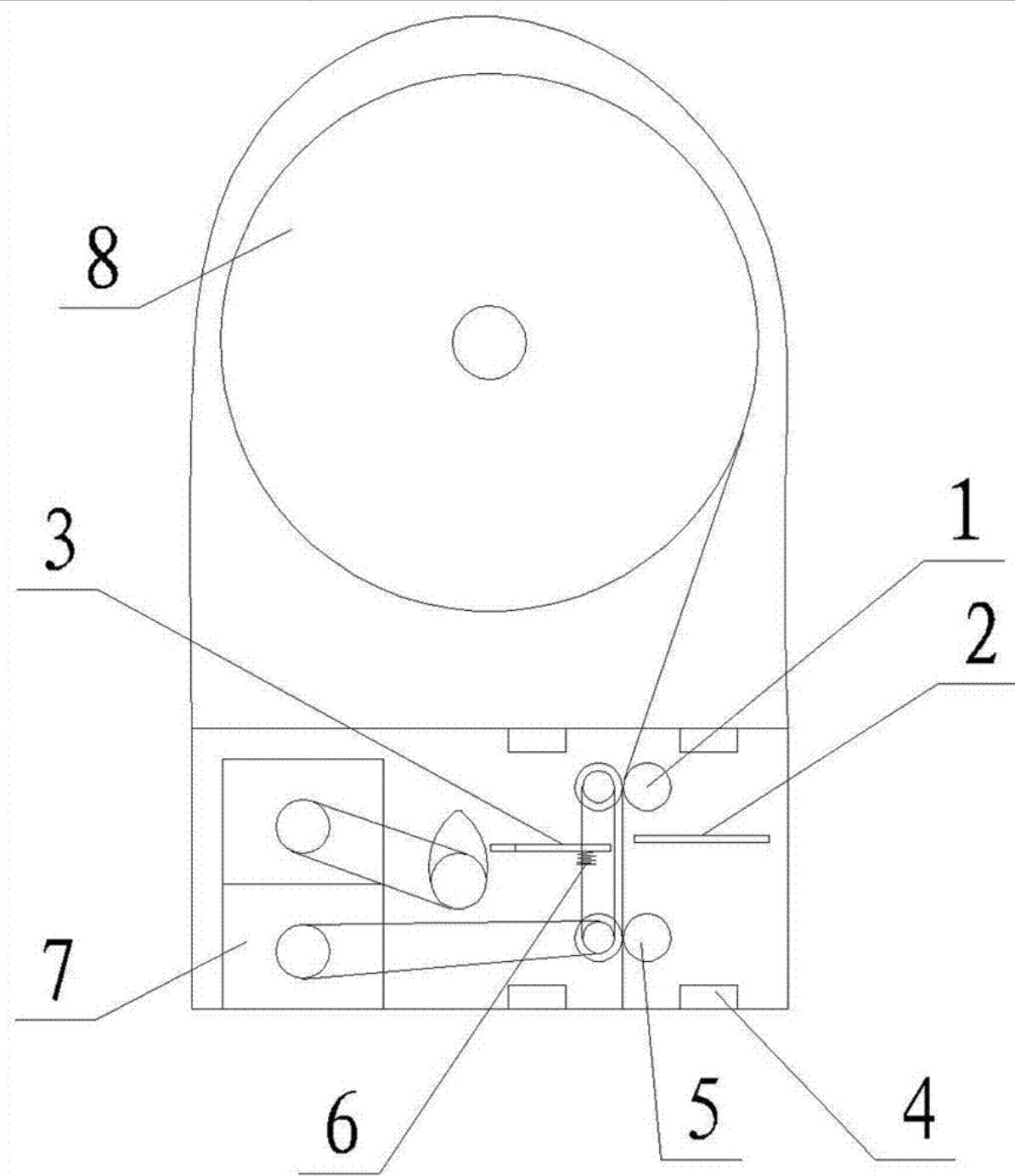
2000-01-31

Family 29/49 - FAMPAT - ©Questel

Title

(CN207444879U)

Cutting the roll paper unit**Images**

**Publication data including kind & date**

CN207444879

U

2018-06-05

CN207444879U

**Abstract**

(CN207444879U)

The present utility model discloses a **cutting** roll paper mechanism, includes a pull material roller, a fixed blade, knife blade, sensor, output rollers, a spring, motor, a pair of rollers are used to pull material sandwiched between the roll sheet paper head rollers, roller pull material below the fixed blade and a knife blade are respectively provided with left and right, the movable blade and a spring is used to compensate for blade wear is installed below the back gap, fixed blade, knife blade is provided with a pair of dispensing of the web beneath the output rollers, roller pull material above and below the discharge rollers are mounted for detecting the roll sheet state sensor, the motor transmission wheel to pull material through belt rollers, discharge rollers, connected to the movable blade drive. The present utility model and the automatic sheet feeding is achieved automatically cropping, and reduce cross-infection of bacteria to save paper; blade change is small, low maintenance cost.

Latest standardized assignees - inventors removed

ANHUI FEI NIU TECHNOLOGY

Publication dates

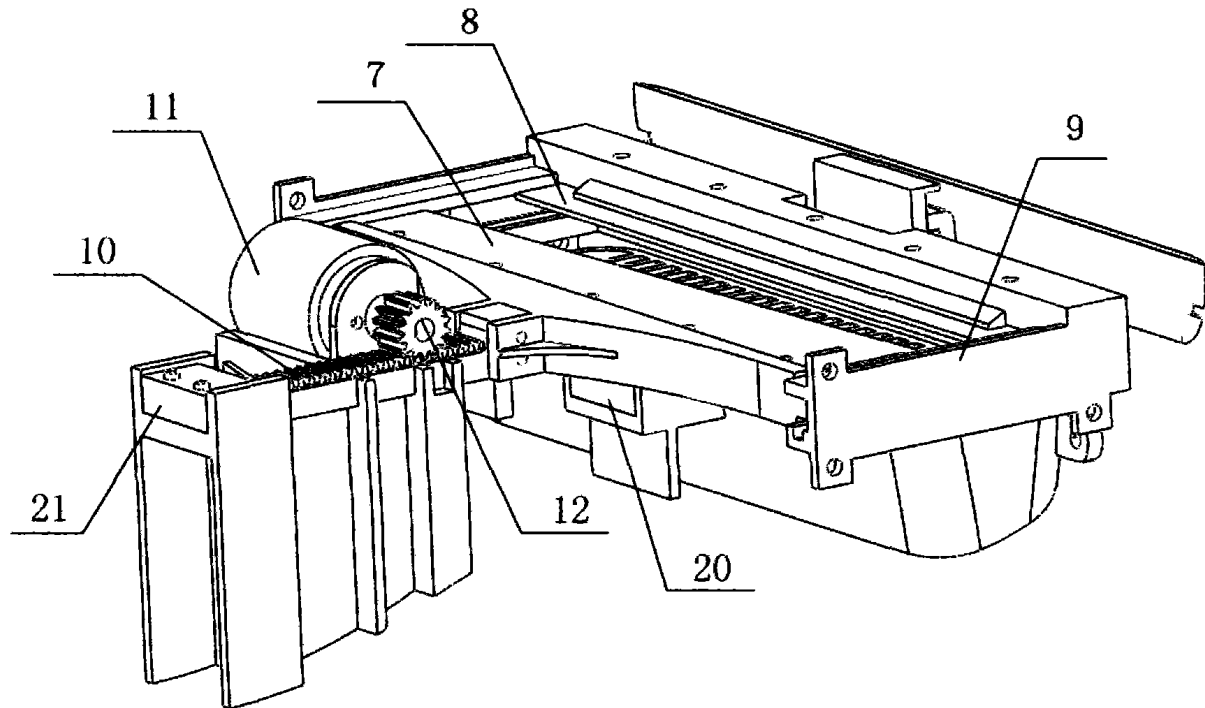
2018-06-05

Family 30/49 - FAMPAT - ©Questel

Title

(CN201612557U)

Entire intelligent paper goods

Images**Publication data including kind & date**[CN201612557](#)

U

2010-10-27

CN201612557U

**Abstract**

(CN201612557U)

Entire intelligent paper goods that this utility model stated that involved one kind to output and cut off the paper goods automatically the induction paper goods. Is easy to damage and resorting to arms traveling schedule too long question for the driving pulley that in solution existing technology has, the entire intelligent paper goods that this utility model provides on storing under paper warehouse the shell endophragm has two abutments fixedly, the static knife edge's both sides fix separately in two abutments front, moves the knife edge the both sides to insert from the abutment, and with the abutment slip connection, moves the knife edge back connection to have the rack, the rack with by the gear coordination that the electrical machinery is driven. When takes the paper, delivers paper organization from leaving the paper goods the paper mouth draws out, after leaving the paper length achieves the hypothesis request, the gear starts to rotate, leads the rack to translate, the rack leads the knife edge to move to the static knife edge, cuts off the paper goods. This paper goods's rack and organization structure of gear coordination is simple, movement stable, is not easy to damage, moreover moves the knife edge traveling schedule to be short, shears the time that the paper uses to be shorter, may save the electricity consumption.

Inventors

WANG HUCHENG

Publication dates

2010-10-27

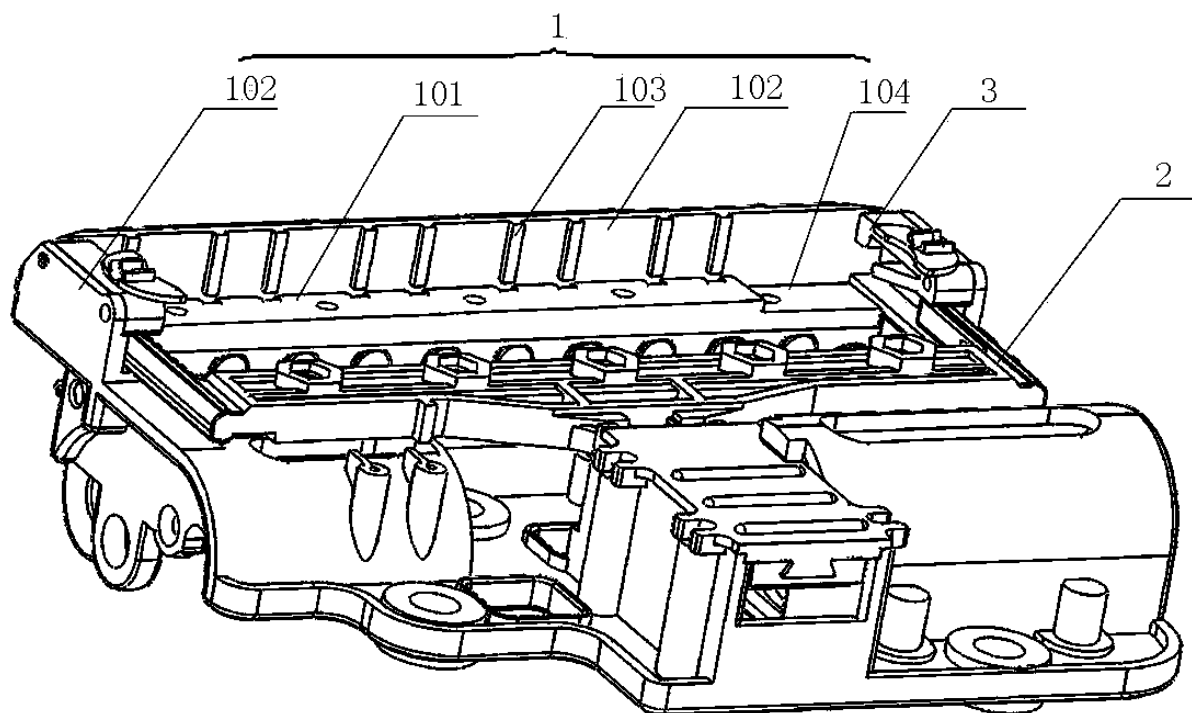
Family 31/49 - FAMPAT - ©Questel

Title

(CN102860780B)

Tissue **cutting** mechanism of tissue device

Images



Publication data including kind & date

CN102860780	A	2013-01-09	CN102860780
CN102860780	B	2014-04-16	CN102860780B



Abstract

(CN102860780B)

The invention discloses a tissue **cutting** mechanism of a tissue device. The tissue **cutting** mechanism of the tissue device comprises an electric tissue **cutting** mechanism. The electric tissue **cutting** mechanism comprises a moving blade and a fixed blade, wherein the fixed blade is fixedly arranged on a support; the moving blade is fixedly arranged on a knife rest; the front end of the moving blade is an angular surface of which the left side is wider than the right side; a support surface used for supporting the fixed blade is formed at the front end of the support; the edges of the front end, the left side and the right side of the support surface are perpendicular to the support surface to form support walls; the lower surface of the support surface is a plane; and the upper surface of the support surface gradually rises in height from the left side to the right side or/and gradually rises in height from the front end to the rear end. At least two protruding vertical ribs are formed on the inner side wall of the support wall at the front end of the support surface; a groove is formed at the end part of the right side of the upper surface of the support surface; and the top parts of the support walls at the left side and the right side are respectively provided with an elastic clamp. Compared with a traditional tissue **cutting** mechanism of the tissue device, the tissue **cutting** mechanism of the tissue device has the advantages that the blades cannot be easily damaged; the service life is long; tissues cannot be blocked; and tissue **cutting** is smooth.

Inventors

WANG HUCHENG

Publication dates

2013-01-09

2014-04-16

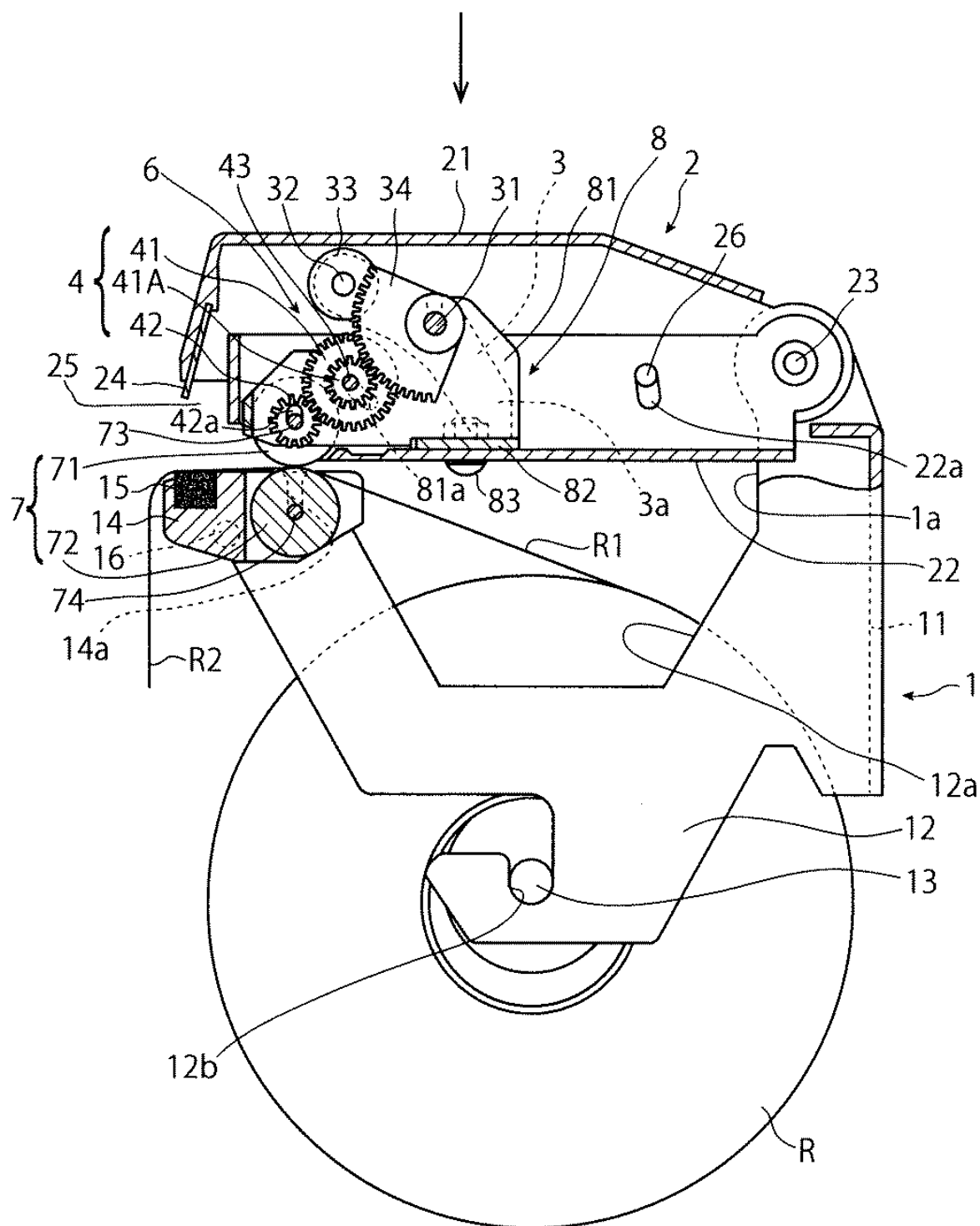
Family 32/49 - FAMPAT - ©Questel

Title

(JP2018000878)

Roll paper holder

Images



Publication data including kind & date

JP2018000878

A 2018-01-11 JP2018000878



Abstract

(JP2018000878)

PROBLEM TO BE SOLVED: To provide a roll paper holder which is easy to use regardless of age. **SOLUTION:** A roll paper holder comprises: a roll holder body 1; a push cover part 2 having a push cover 21; a paper feeding drive mechanism part 6 having a reset spring; and a paper feeding mechanism part 7 having a paper feed roller. The push cover 21 can press a crank 3 against the reset spring. Clutch means 4 can select transmission and cut-off of an actuating force from the crank 3

with respect to the paper feed roller 71. When the crank 3 is pressed by the push cover 21, the clutch means 4 cuts off the transmission of the actuating force from the crank to the paper feed roller 71. When the pushing of the push cover is released and the pressing of the crank 3 is released, the actuating force of the clutch means 4 is transmitted to the paper feed roller 71 via the crank by a spring action of paper feeding-out of the reset spring, thereby enabling paper to be automatically fed out. SELECTED DRAWING: Figure 1

Inventors

OYAJI AKIO

Latest standardized assignees - inventors removed

YUEI CASTER

Publication dates

2018-01-11

Family 33/49 - FAMPAT - ©Questel

Title

(JP11123159)

Roll paper holder

Publication data including kind & date[JPH11123159](#) A 1999-05-11 JP11123159**Abstract**

(JP11123159)

PROBLEM TO BE SOLVED: To provide a roll paper holder with a stable feeling capable of easily mounting roll paper and easily **cutting** the paper with one hand. SOLUTION: An abutting surface 2c is formed at the front end of the housing part of the roll paper 10 and an opening and closing plate 5 turnable from a **cutting** position for clamping the paper 10a by being abutted to the abutting surface 2c to a standby position for forming an opening K for inserting the paper on the front side of the abutting surface 2c and being suspended is provided. A spring 8 for holding the opening and closing plate 5 at the **cutting** position or the standby position is attached.

Inventors

MATSUMOTO OSAMU

Latest standardized assignees - inventors removed

INAX

Publication dates

1999-05-11

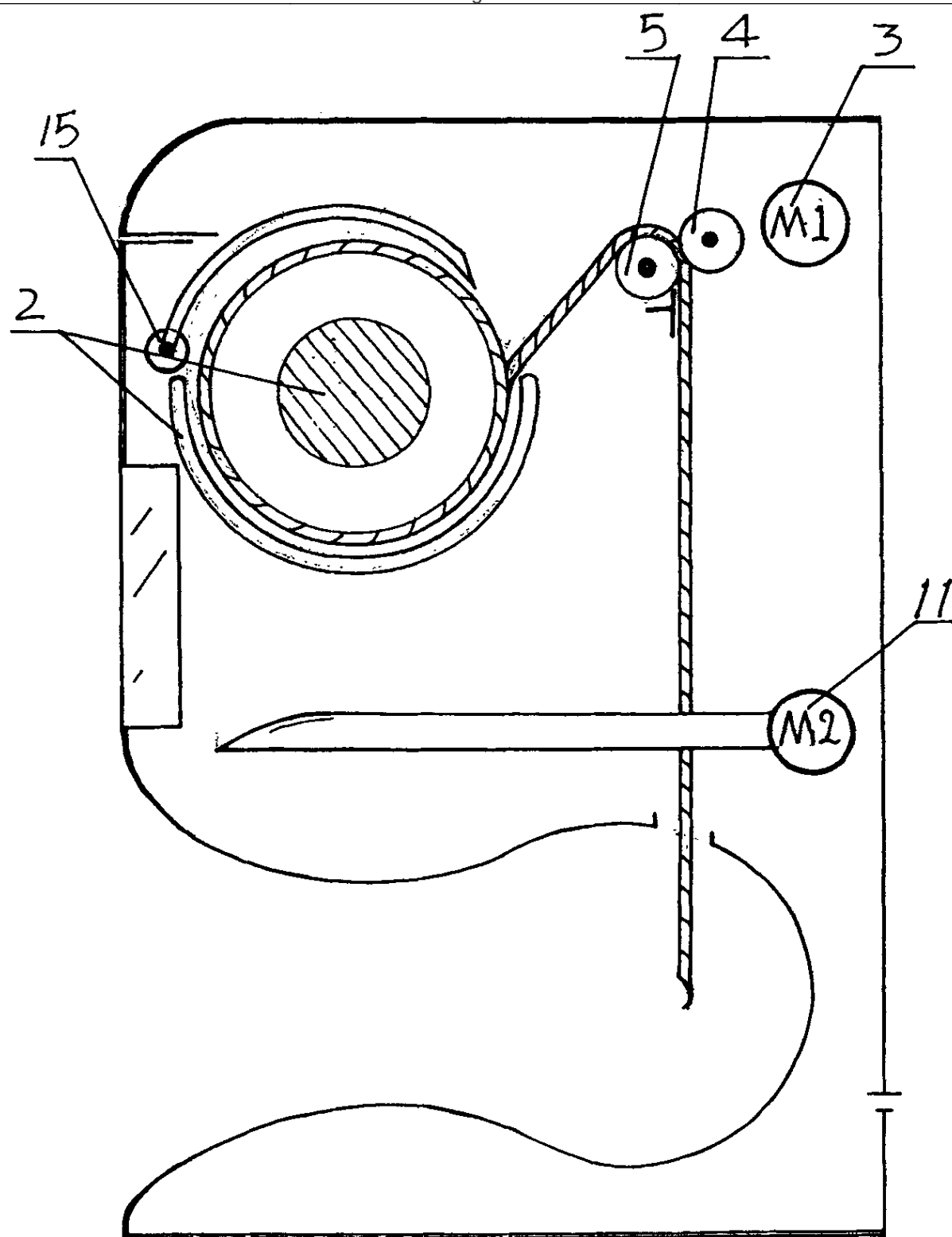
Family 34/49 - FAMPAT - ©Questel

Title

(CN2873064U)

Intelligent toilet paper box

Images



Publication data including kind & date

[CN2873064](#)

Y

2007-02-28

CN2873064U



Abstract

(CN2873064U)

The utility model relates to a toilet paper case, in particular to an intelligent toilet paper case. The utility model resolves the unreasonable structure, the unreliable work and the inconvenient method of use of the prior intelligent toilet paper cases. The intelligent toilet paper case comprises a case body which is provided with a toilet paper storage, a paper-sending device, an electric paper-cutting device and a motor controlling circuit. The electric paper-cutting device includes a fixed blade and a movable blade hinged with each other at one end. The other end of the movable blade is provided with a sliding slot with a sliding wheel in. A facing bar is mounted under the fixed and movable blades, on which a belt drive mechanism consisting of a driving wheel driven by the generator and a driven wheel is equipped. The spindle of the sliding

wheel in the sliding slot of the movable blade buckles the driving belt at one end .The intelligent toilet paper case with the reasonable structure design is capable of realizing the output and cut off more reliably.The intelligent toilet paper case can be supplied with the toilet paper without a reel and is easier to use than the prior product.

Inventors

XUE WENGUANG

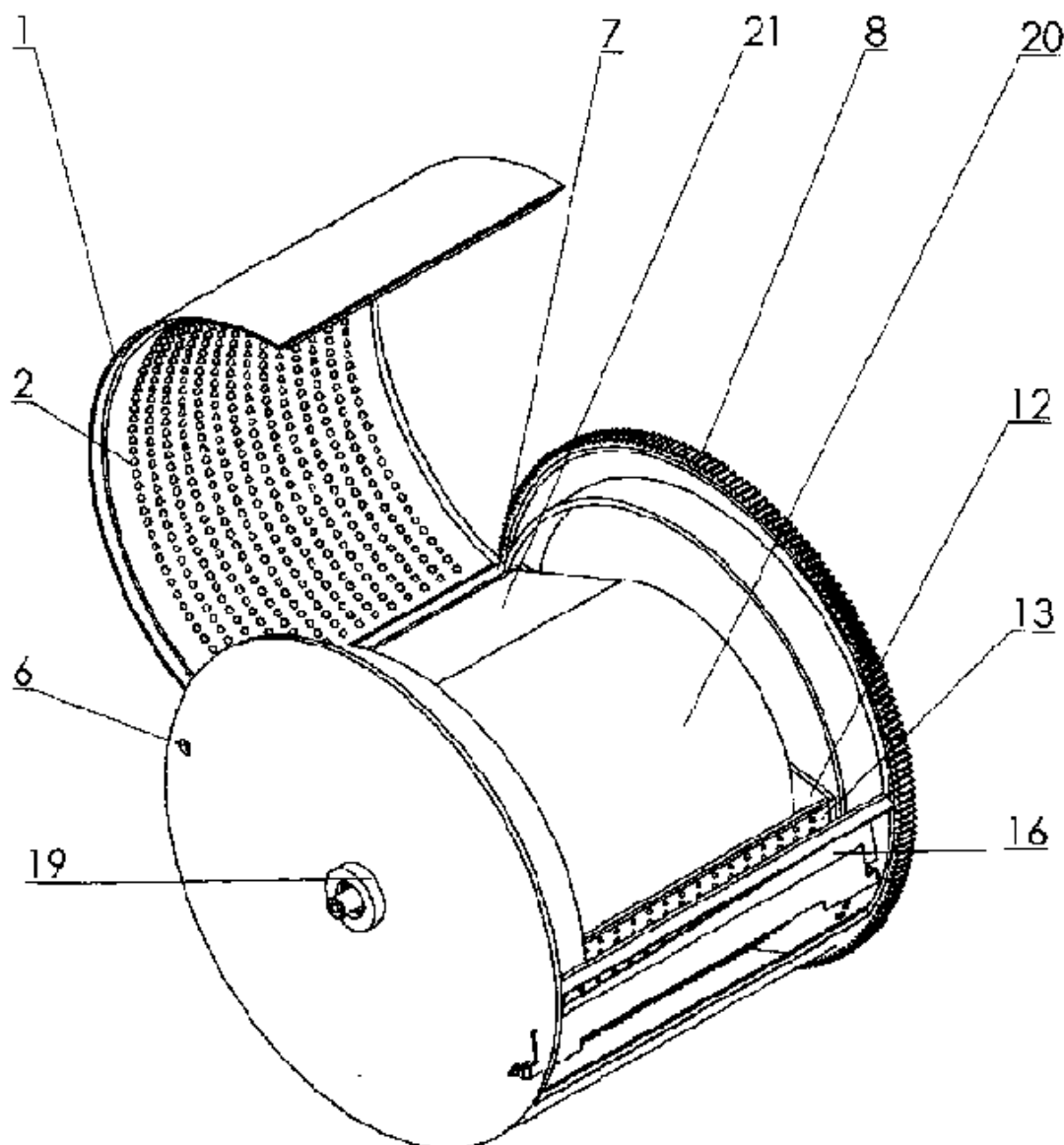
Publication dates

2007-02-28

Family 35/49 - FAMPAT - ©Questel

Title

(CN2717369U)

Curl **cutting** mechanism for paper towels dispenser**Images****Publication data including kind & date**

CN2717369

Y

2005-08-17

CN2717369U

**Abstract**

(CN2717369U)

The utility model relates to a curl **cutting** mechanism for paper towels dispenser, comprising a towel warehouse body with a large towel roll installing axis.The towel warehouse body is connected with a revolving rack, a driving mechanism of the

revolving rack, a circular arc curl fixed belt, a circular arc curl movable belt, a movable **cutting** blade, a transportation guide barrel and a fixed **cutting** blade. The circular arc curl movable belt, the circular arc curl fixed belt and the **cutting** mechanism are connected into an entirety, and the circular arc curl movable belt, the movable **cutting** blade and a rotary rack associated with a driven gear can make relative rotation around the towel warehouse body; therefore, the utility model solves the technical problems of the original paper towels dispenser that the curling and **cutting** are mutually independent, so the mechanism is complicated, the cost is high, the space usage is large and the miniaturization of the machine is difficult.

Inventors

YAN BEIYIN

Publication dates

2005-08-17

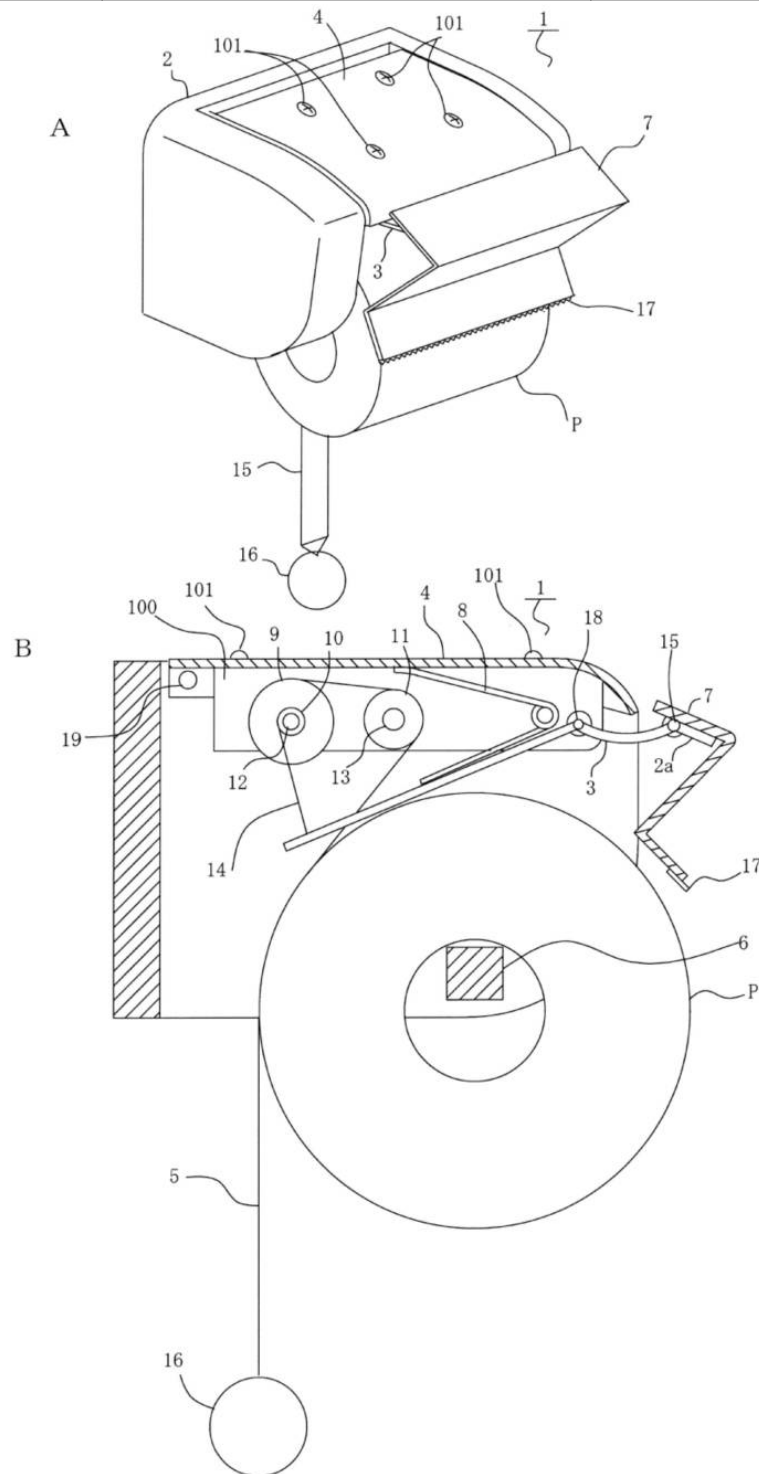
Family 36/49 - FAMPAT - ©Questel

Title

(JP3206392U)

Roll paper holder

Images

**Publication data including kind & date**

JP3206392

U 2016-09-15 JP3206392U

**Abstract**

(JP3206392U)

PROBLEM TO BE SOLVED: A sufficient amount of the paper by hand, and then **cutting** the cover plate for use in hanging down from the providing Roll paper holder. SOLUTION: Roll paper holder 1 is, the roll paper P core member 6 and, a cover member 4 therebetween. The cover member 4 is, a front region, axial 18 the arm member about a pivot 3 and, when the front of the arm member is lifted to the standby position and a biasing member 8 and, attached to an end of the arm member, the **cutting** blade 17 having a pressing member 7 and, the roller is rotated by the swinging motion of the arm 9 and, after the paper roll is wound on a roller in contact with the side surface, the weight 16 by a strip member hangs 5 and, a pressing member 7 when pushed by the swinging motion of the arm, so that the band member causing the roller to rotate the winding is unwound, the arm member by a biasing member when the return to the standby position, the strip-shaped member so as to wind the roller rotates. SELECTED DRAWING: Fig. 1

Inventors

Shirota Sadao

Publication dates

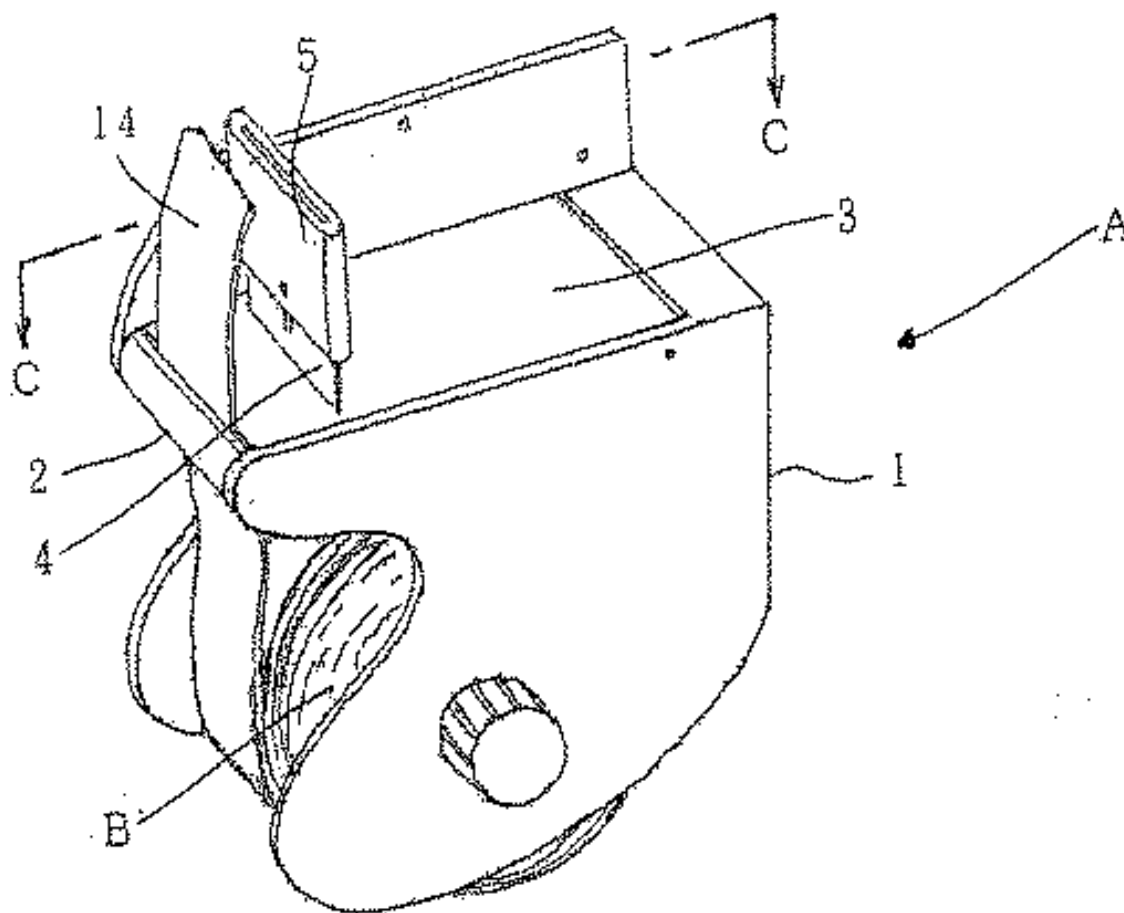
2016-09-15

Family 37/49 - FAMPAT - ©Questel

Title

(JP2015071023)

Paper holder

Images**Publication data including kind & date**[JP2015071023](#)

A 2015-04-16 JP2015071023

**Abstract**

(JP2015071023)

PROBLEM TO BE SOLVED: To provide a paper holder capable of mounting roll paper for cleanly absorbing urine and **cutting** the paper with one hand only by pressing the cut paper on a penile tip, in which a man soils the edge of a toilet bowl by scattered urine droplets and soils own underwear with remaining urine when shaking residual urine at the penile tip after standing urination. **SOLUTION:** A paper holder is characterized by: disposing a support girder (2) and a lid (3) on the upper part of a body frame (1) U-shaped in a plan view; setting up a **cutter** plate (4) on the lid (3); covering a protective cover (5) on the **cutter** plate (4), and bringing a tip piece (14) of a roll paper (B) mounted in the inside of the body frame (1) into a standby state on the upper part of the holder at all times.

Inventors

OTSUKA AKIO

Publication dates

2015-04-16

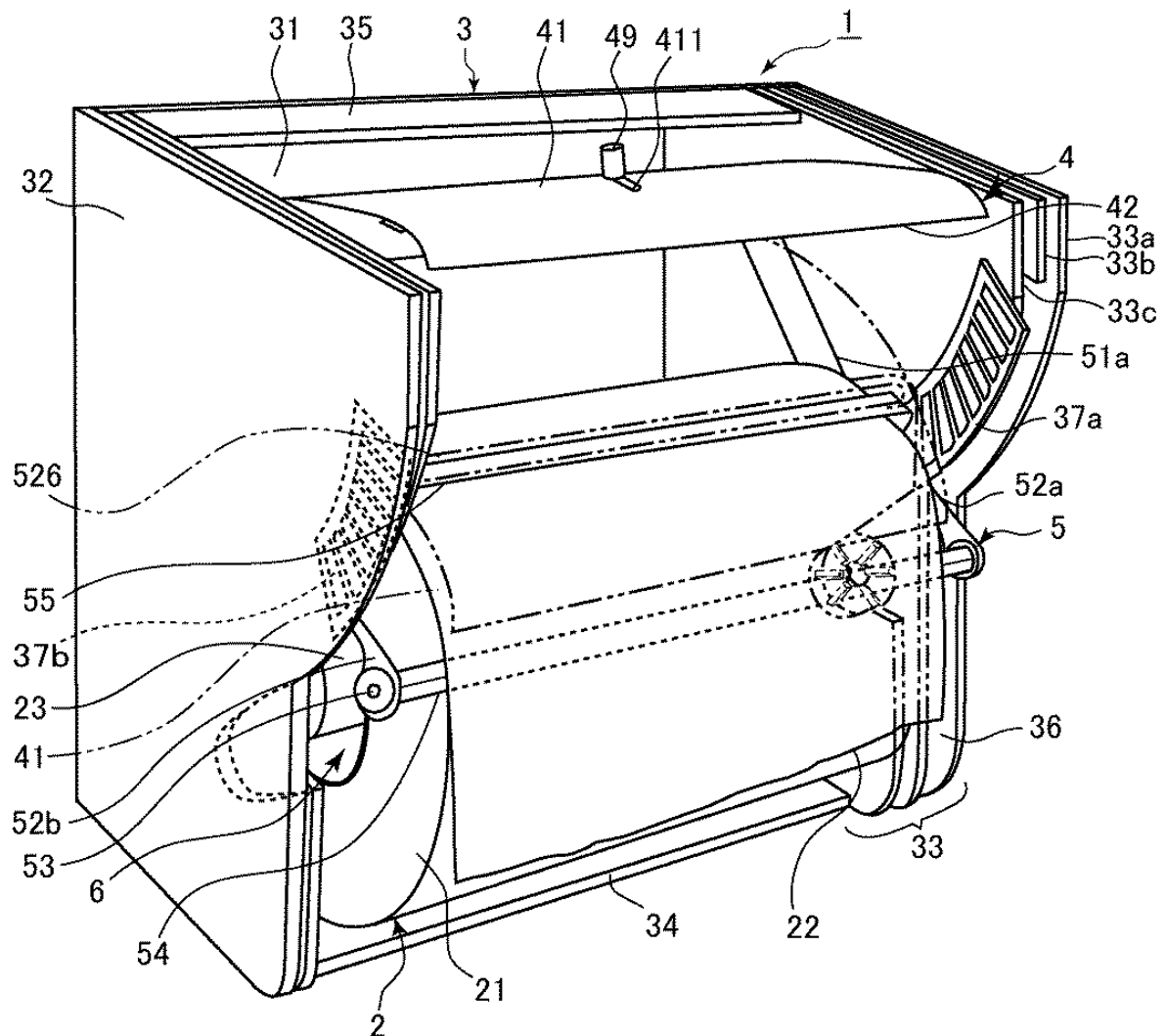
Family 38/49 - FAMPAT - ©Questel

Title

(JP2013198714)

Roll paper holder

Images



Publication data including kind & date

JP2013198714

A

2013-10-03

JP2013198714



Abstract

(JP2013198714)

PROBLEM TO BE SOLVED: To provide a roll paper holder which allows a pinch portion for the next use to surely hang down when a roll automatically rotates after a toilet paper sheet is cut off from the roll.SOLUTION: When a cover body 41 is pushed down, a guide member 5 retreats along the outer circumference of a roll body 21 of roll paper 2 so as to move to the lower side of the cover body 41.When a toilet paper sheet 22 is cut off along the end 42 of the cover body 41 so that the cover body 41 is returned to its original position, the guide member 5 returns to its original position.In this case, the guide member 5 is positioned on the lower side of the paper 22 thereby easily taking up the paper 22 from the roll body 21.At the same time, the roll body 21 rotates by means of a rotary motion driving means so that the piece of the paper 22 hangs down.

Inventors

EBINE ITSUO

Latest standardized assignees - inventors removed

ONE UP

Publication dates

2013-10-03

Family 39/49 - FAMPAT - ©Questel

Title

(JP11123158)

Roll paper holder

Publication data including kind & date[JPH11123158](#)

A 1999-05-11 JP11123158

**Abstract**

(JP11123158)

PROBLEM TO BE SOLVED: To provide a roll paper holder capable of easily mounting roll paper and easily **cutting** the paper with one hand.SOLUTION: An abutting surface 2c is formed in a projected shape on the front end of a housing part capable of housing the roll paper 10 and an opening and closing plate 5 connected to a supporting piece 4 supported by a rotary shaft 3 and provided with a **cutter** 6 is disposed on the front side of the abutting surface 2c.The opening and closing plate 5 is provided turnably from a standby position for forming a wide opening K for inserting the paper 10a in front of the abutting surface 2c and being suspended almost perpendicularly to the abutting surface 2c to a **cutting** position parallel to the abutting surface 2c capable of clamping the paper 10a by abutting a rear end 5a onto the abutting surface 2c.

Inventors

MATSUMOTO OSAMU

Latest standardized assignees - inventors removed

INAX

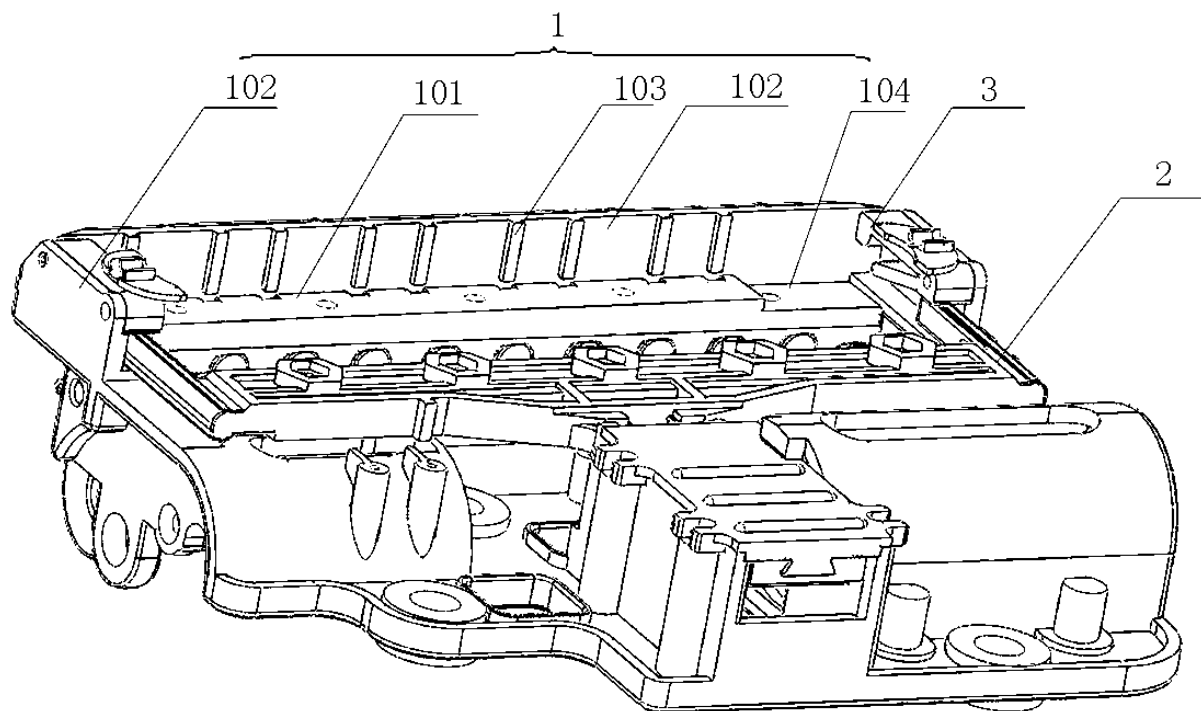
Publication dates

1999-05-11

Family 40/49 - FAMPAT - ©Questel

Title

(CN202751306U)

Tissue machine **cutting** tissue mechanism**Images****Publication data including kind & date**[CN202751306](#)

U 2013-02-27 CN202751306U

**Abstract**

(CN202751306U)

The utility model discloses a tissue machine **cutting** tissue mechanism comprising a motor-driven **cutting** tissue mechanism. The motor-driven **cutting** tissue mechanism comprises a moving blade and a static blade. The static blade is fixed on the supporting frame, the moving blade is fixed on a knife rest, and the front end of the moving blade is of an inclined plane. The left side of the inclined plane is wider than the right side of the inclined plane. A supporting surface is formed at the front end of the supporting frame and used for supporting the static blade. The front end edges of the left and right sides of the supporting surface are perpendicular to the supporting surface and a supporting wall is formed. The lower surface of the supporting surface is a plane. The upper surface of the supporting surface gradually rises from the left side to the right side in terms of height, or/and the upper surface of the supporting surface gradually rises from the front end to the rear end. At least two protruded vertical bars are formed on the inner side wall of a supporting wall of the front end of the supporting surface. A groove is formed in the end portion of the right side of the upper surface of the supporting surface. Elastic clamps are installed at the tops of the supporting walls on the left and right sides. Compared with an existing tissue machine **cutting** tissue mechanism, the tissue machine **cutting** tissue mechanism has the advantages of being not prone to be damaged, long in service life, free of paper jam and smooth in **cutting** tissues.

Inventors

WANG HUCHENG

Publication dates

2013-02-27

Family 41/49 - FAMPAT - ©Questel

Title

(WO2018126236)

Paper product dispenser

Images

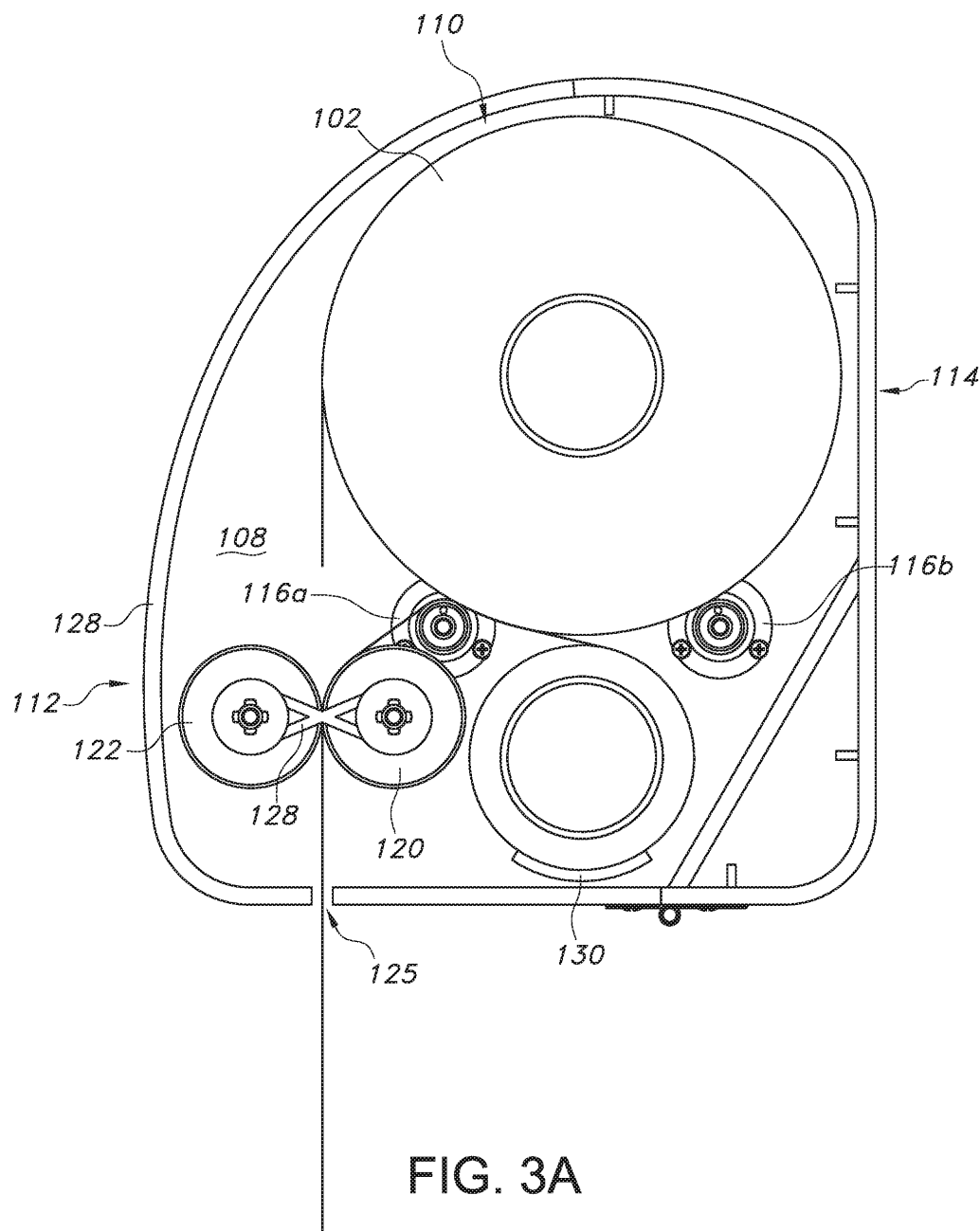


FIG. 3A

Publication data including kind & date[WO2018/126236](#)

A1 2018-07-05

WO2018126236

**Abstract**

(WO2018126236)

Systems and apparatus for dispensing of paper products. The dispenser includes two spindle arms. A rolled paper product rests on top of the two spindle arms and during dispensing the roll rotates on top the two spindle arms.

Inventors

SEXTON, Joseph M.

CHALKO, Eric M.

ERZEN, Klemen

Latest standardized assignees - inventors removed

KIMBERLY CLARK WORLDWIDE

Publication dates

2018-07-05

Family 42/49 - FAMPAT - ©Questel

Title

(JP11123161)

Roll paper holder

Publication data including kind & date[JPH11123161](#)

A 1999-05-11 JP11123161

**Abstract**

(JP11123161)

PROBLEM TO BE SOLVED: To provide a roll paper holder capable of easily mounting roll paper and **cutting** the paper and obtaining a neat installation state.SOLUTION: An abutting surface 2c is formed in a projected shape at the front end of a housing part S and an opening and closing plate 5 is connected to a supporting piece **4** supported by a rotary shaft 3 on the front side of the abutting surface 2c.The opening and closing plate 5 is constituted turnably from a position for forming an opening K in front of the abutting surface 2c and being suspended to a **cutting** position capable of clamping the paper by being abutted onto the abutting surface 2c and a cover 6 capable of covering the roll paper is integrally formed at the opening and closing plate 5.

Inventors

MATSUMOTO OSAMU

Latest standardized assignees - inventors removed

INAX

Publication dates

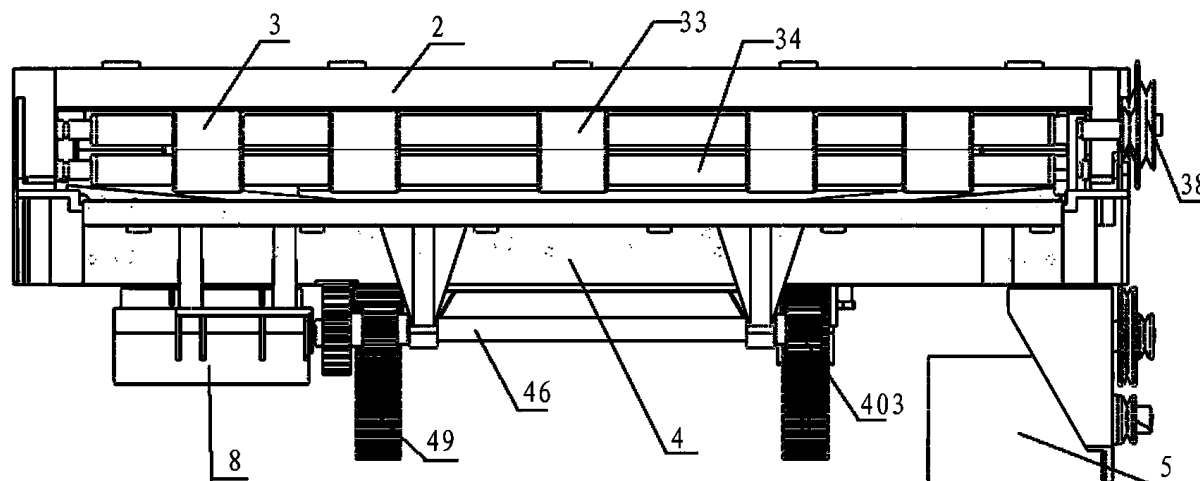
1999-05-11

Family 43/49 - FAMPAT - ©Questel

Title

(CN104545644)

Intelligent tissue machine

Images**Publication data including kind & date**[CN104545644](#)

A 2015-04-29 CN104545644

**Abstract**

(CN104545644)

The invention provides an intelligent tissue machine which comprises a frame, a machine core and control circuit.The machine core is mounted in the frame.The machine core comprises a paper feeding mechanism and a **cutting** mechanism located below the paper feeding mechanism.The paper feeding mechanism comprises a paper feeding motor, a first paper feeding mechanism and a second paper feeding mechanism, wherein the first paper feeding mechanism and the second paper feeding mechanism are parallel, the first paper feeding mechanism comprises a first transmission shaft and a first driven shaft in close fit with the first transmission shaft, the second paper feeding mechanism comprises a second transmission shaft and a second driven shaft in close fit with the second transmission shaft, the first transmission shaft and the first driven shaft are arranged in an up-down manner, the second transmission shaft and the second driven shaft are

arranged in an up-down manner, two ends of the first transmission shaft and the first driven shaft are mounted on a fixing rack, and two ends of the second transmission shaft and the second driven shaft are mounted on the fixing rack. The intelligent tissue machine has the advantages that a double-movable-cutter structure is used, movable cutter edge strength can be enhanced, movable cutter edge deformation caused by overlength is prevented, and engaging degree of movable cutters and a static cutter can also be increased.

Inventors

XUE WENGUANG

Publication dates

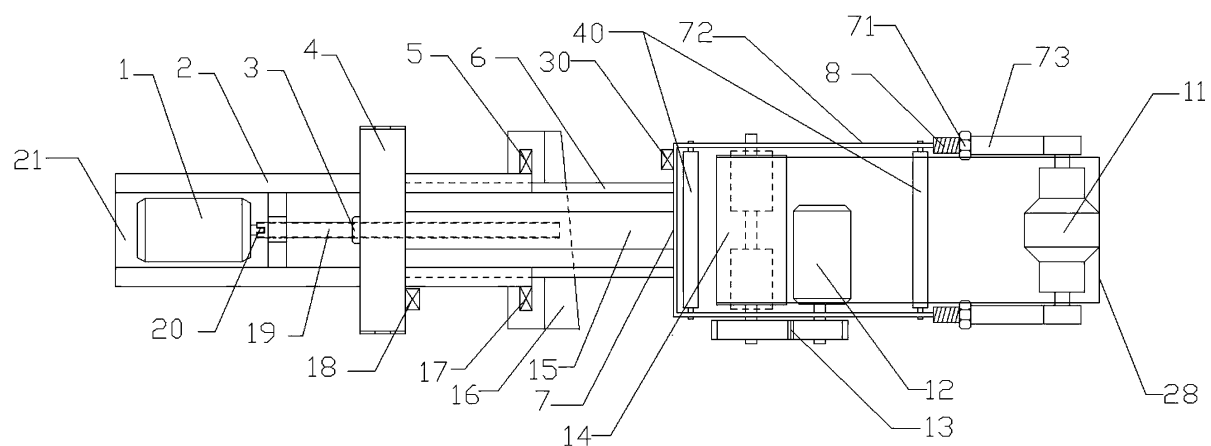
2015-04-29

Family 44/49 - FAMPAT - ©Questel

Title

(CN204394394U)

Excrement wiping manipulator

Images**Publication data including kind & date**

CN204394394

U

2015-06-17

CN204394394U

**Abstract**

(CN204394394U)

The utility model discloses an excrement wiping manipulator. The excrement wiping manipulator comprises a telescoping mechanism and a paper roll conveying mechanism, wherein a telescoping control motor of the telescoping mechanism is arranged on a chassis; a shaft of the telescoping control motor is connected with one end of a lead screw of a ball screw-nut pair; the lead screw of the ball screw-nut pair sleeves in a connecting sleeve; a nut of the ball screw-nut pair is fixedly arranged at one end of the connecting sleeve; the other end of the connecting sleeve is connected to a paper roll conveying rack; guide rails are arranged on the two sides of the chassis; one end of a sliding rod is arranged in the guide rails, and the other end of the sliding rod is fixedly connected to the paper roll conveying rack; a paper roll driving motor and a drive roll of the paper roll conveying mechanism are arranged at a first end of the paper roll conveying rack; a shaft of the paper roll driving motor and a shaft of the drive roll are connected through a gear pair; a driven roll is arranged at a second end of the paper roll conveying rack; an annular belt is arranged on the drive roll and the driven roll in a tensioning manner. The excrement wiping manipulator has a small size and can be directly arranged on a toilet, and the paper roll conveying mechanism retracts back without occupying the extra space after use.

Inventors

HU YEJIE

Publication dates

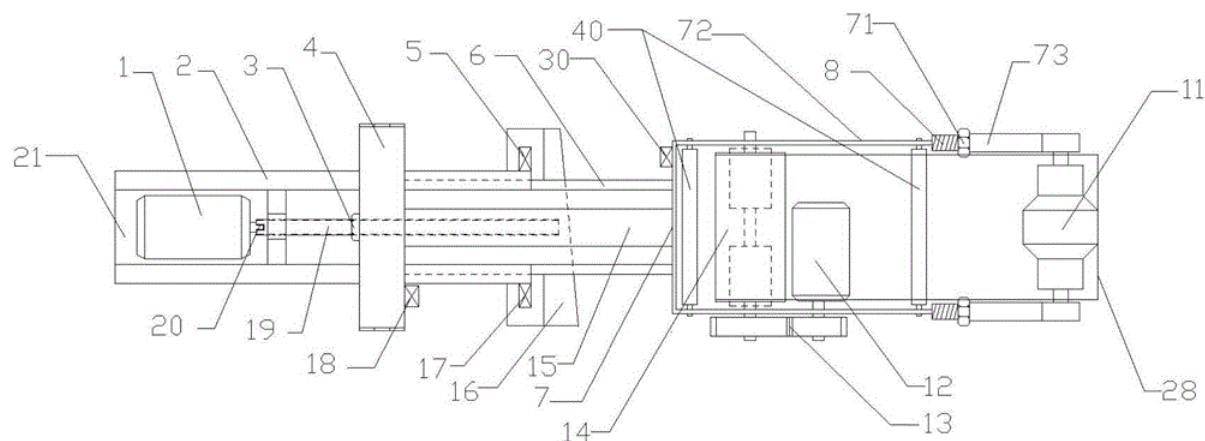
2015-06-17

Family 45/49 - FAMPAT - ©Questel

Title

(CN104523191)

Excrement wiping manipulator

Images**Publication data including kind & date**

CN104523191	A	2015-04-22	CN104523191
CN104523191	B	2016-08-24	CN104523191B

**Abstract**

(CN104523191B)

An excrement wiping manipulator comprises a telescoping mechanism and a roll paper delivery mechanism, wherein a telescoping control motor of the telescoping mechanism is arranged on a chassis, a shaft of the telescoping control motor is connected with one end of a lead screw of a ball screw nut pair, a lead screw of the ball screw nut pair is sleeved with a connecting sleeve, a nut of the ball screw nut pair is fixed to one end of the connecting sleeve, and the other end of the connecting sleeve is connected to a roll paper delivery frame. Guide rails are installed on two sides of the chassis, one end of a slide rod is installed in the guide rails, and the other end of the slide rod is fixedly connected with the roll paper delivery frame. A roll paper driving motor of the roll paper delivery mechanism and a driving rotary drum are installed at the first end of the roll paper delivery frame, and the shaft of the telescoping control motor is connected with a shaft of the driving rotary drum through a gear pair. A driven rotary drum is installed at the second end of the roll paper delivery frame, and an annular belt is installed on the driving rotary drum and the driven rotary drum in a tensioning mode. The excrement wiping manipulator is small in size, can be directly installed on a closetool, and the roll paper delivery mechanism retracts to an original position and does not occupy space after the excrement wiping manipulator is used.

Inventors

HU YEJIE

Publication dates

2015-04-22

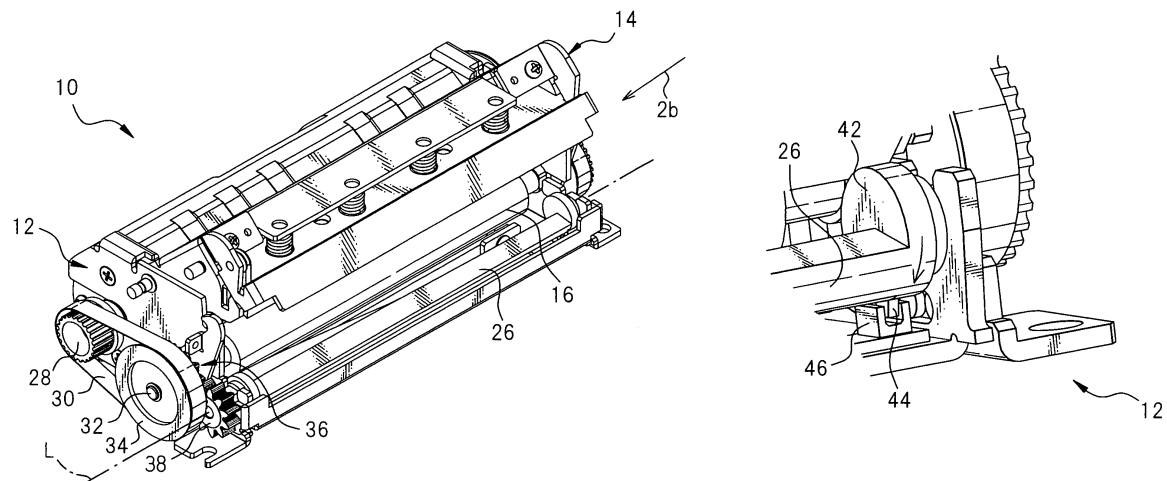
2016-08-24

Family 46/49 - FAMPAT - ©Questel

Title

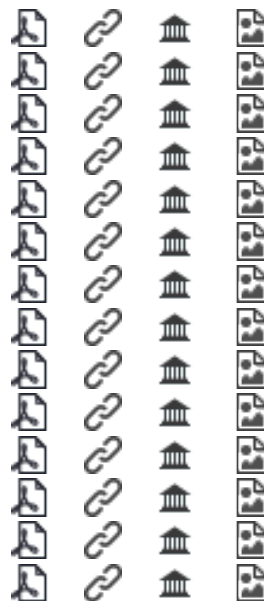
(EP2218560)

Rotary **cutter** unit and printer device having the unit**Images**



Publication data including kind & date

CN101456300	A	2009-06-17	CN101456300
EP2070667	A1	2009-06-17	EP2070667
US2009151526	A1	2009-06-18	US20090151526
KR20090064313	A	2009-06-18	KR20090064313
JP2009142945	A	2009-07-02	JP2009142945
EP2218560	A2	2010-08-18	EP2218560
EP2218560	A3	2011-06-29	EP2218560
CN101456300	B	2011-09-07	CN101456300B
KR101121129	B1	2012-03-19	KR101121129
JP5106080	B2	2012-12-26	JP5106080
EP2218560	B1	2013-05-15	EP2218560
EP2070667	B1	2014-11-12	EP2070667
US9032850	B2	2015-05-19	US9032850
US2015217473	A1	2015-08-06	US20150217473



Abstract

(EP2218560)

A simple and compact rotary **cutter** unit capable of detecting a home position of a rotary **cutter**, and a printer device having the rotary **cutter** unit. A radially outwardly extending fin-shaped detected member is arranged on an end portion of the rotating blade opposed to a second gear of the rotating blade. A photosensor is arranged within a main frame of the printer device so that the photosensor may detect the fin-shaped member when the rotating blade is positioned at the home position. The fin-shaped member and the photosensor are not positioned outside relative to both ends of the rotating blade in relation to the direction of the rotational axis of the rotating blade. Therefore, it is not necessary to increase the width of the printer device due to the presence of the fin-shaped member or the photosensor, whereby the printer device may be compactly constituted.

Inventors

CHIBA MASAFUMI
MORI YUKIHIRO
TAKABATAKE YOSHINARI
TSUCHIYA MASAHIRO
FUNADA KUNIIHIKO
TAKAMURA YOICHI

Latest standardized assignees - inventors removed

FUJITSU COMPONENT

Publication dates

2009-06-17

2009-06-17

2009-06-18

2009-06-18

2009-07-02

2010-08-18

2011-06-29

2011-09-07

2012-03-19

2012-12-26

2013-05-15

2014-11-12

2015-05-19

2015-08-06

Family 47/49 - FAMPAT - ©Questel

Title

(EP-854686)

Wiping material dispenser apparatus with a spare roll loading device

Images

AT206893	T	2001-11-15	ATE206893
DE69616083	D1	2001-11-22	DE69616083
ES2163033	T3	2002-01-16	ES2163033
DK0854686	T3	2002-02-11	DK-854686T
PT854686	E	2002-02-28	PT-854686
DE69616083	T2	2002-06-06	DE69616083



Abstract

(EP-854686)

A dispenser apparatus (1) including a loading device for sensing when an initial working roll (R1) previously positioned in a receptacle (14) is empty, so that it can be replaced with a fresh roll (R2) positioned between flanges (12). The device (1) includes first means (15, 16) positioned and fixed within the cover (3) in a position substantially opposite the point where the material web is inserted and placed on a drum (6), and second means (18) extending from the housing (2) and activated when the cover (3) is closed so that they sense when the first roll (R1) is empty and control the actuation of the first means (15, 16) to load the paper web from the so-called 'spare' roll (R2).

Inventors

GRANGER MAURICE

Publication dates

1997-04-11

1997-04-17

1997-04-30

1997-12-26

1998-07-29

1998-12-16

1999-09-09

1999-11-16

2000-02-22

2001-10-17

2001-11-15

2001-11-22

2002-01-16

2002-02-11

2002-02-28

2002-06-06

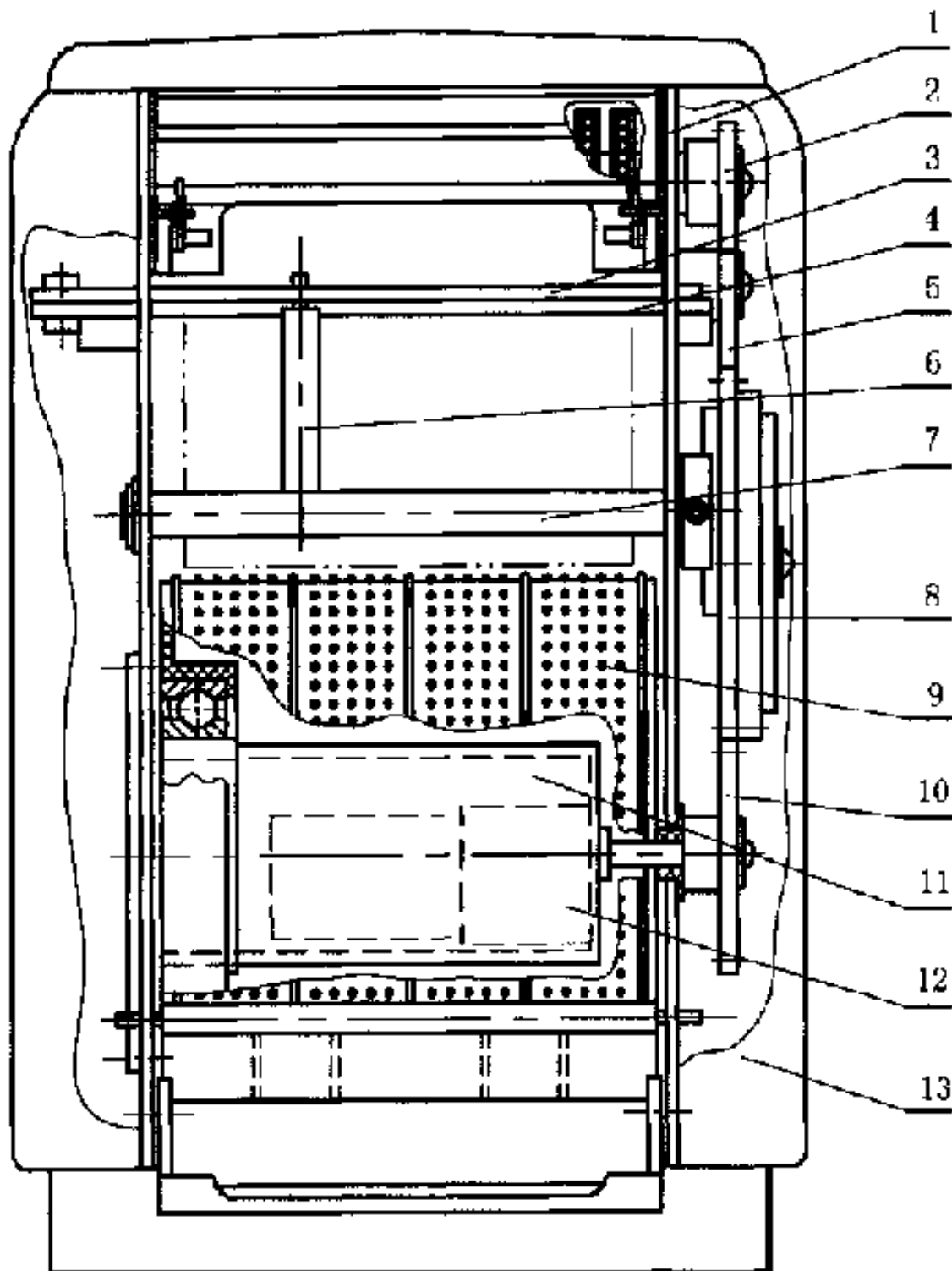
Family 48/49 - FAMPAT - ©Questel

Title

(CN2732164U)

Mechanic member of wet napkin machine

Images

**Publication data including kind & date**

CN2732164

Y

2005-10-12

CN2732164U

**Abstract**

(CN2732164U)

The utility model relates to a mechanic member of wet napkin machine, which has a simple structure and a long service life. The motor output shaft is matched with a napkin rolling barrel and a gearwheel A which is engaged with an eccentric cam, an eccentric peach salient and an eccentric top salient gearwheel B; the periphery at one side of the gearwheel B is composed of part geared rings and gear lost parts, and the periphery at the other side of the gearwheel B is composed of whole geared ring parts; the gearwheel B is matched with a gearwheel C which is meshed with a gearwheel D which is fixed with a conveying roller; the upper frame of the machine frame is equipped with a knife pushing axis, one end of which is fixed with fork plates; the lower plate of the fork plates is corresponding with the eccentric top salient of the gearwheel B

and the upper plate of the fork plates with the eccentric peach salient of the gearwheel B; the machine frame is equipped with an arresting stop, the lower terminal of which correspondingly matches with the eccentric cam of the gearwheel B and the upper terminal of which matches with the gearwheel C; the knife pushing axis is fixedly connected with a knife pushing rod; the machine frame is equipped with a fixed blade, one end of which is pivoted with knife sections with through groove in the middle, and the upper part of the knife pushing rod is penetratingly arranged in the through groove of the knife section. Matching with corresponding electric controlling system, the utility model can manufacture rolling wet napkins.

Inventors

LU WEI

Latest standardized assignees - inventors removed

HANGZHOU AISEN TECHNOLOGY

Publication dates

2005-10-12

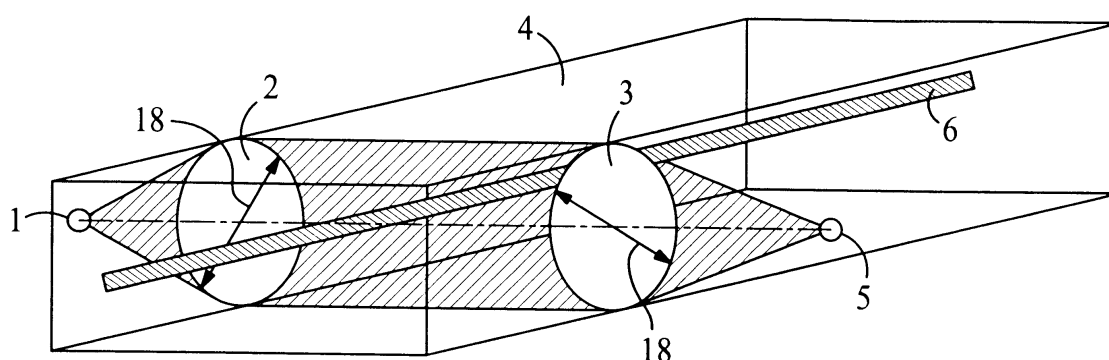
Family 49/49 - FAMPAT - ©Questel

Title

(EP1346302)

Polarizer based detector

Images



Publication data including kind & date

WO200244985	A1	2002-06-06	WO200244985
AU2578502	A	2002-06-11	AU200225785
US2002084406	A1	2002-07-04	US2002084406
EP1346302	A1	2003-09-24	EP1346302
US6648221	B2	2003-11-18	US6648221
JP2004515012	A	2004-05-20	JP2004515012
CN1643527	A	2005-07-20	CN1643527
EP1346302	A4	2006-07-05	EP1346302
AU2002225785	B2	2007-05-10	AU2002225785
JP2008217023	A	2008-09-18	JP2008217023
CN100437603	C	2008-11-26	CN100437603C
EP1346302	B1	2009-09-16	EP1346302
DE60139953	D1	2009-10-29	DE60139953
ES2331056	T3	2009-12-21	ES2331056



Abstract

(EP1346302)

Apparatus and method for detecting strings attached to bills or other forms of payment in a currency validator. In one implementation a string fraud detection means used polarized light to detect a string. In another implementation, polarized

light and light in a different range of wavelengths are used to detect a string.

Inventors

ZOLADZ EDWARD M JR

THAWLEY JEFFREY T

JARD PHILIPPE S

BOUCHET BERNARD

DAOUD JEROME

DEAVILLE DAVID C

CLAUSER ROBERT

NUNN MICHAEL D

Latest standardized assignees - inventors removed

MEI

Publication dates

2002-06-06

2002-06-11

2002-07-04

2003-09-24

2003-11-18

2004-05-20

2005-07-20

2006-07-05

2007-05-10

2008-09-18

2008-11-26

2009-09-16

2009-10-29

2009-12-21