

[SS 11] dispenser or container

Results in EPODOC **1.116.088**

[SS 12] mobile or slider

Results in EPODOC **953.742**

[SS 13] plate or cap

Results in EPODOC **4.201.439**

[SS 14] package or bag or pouch

Results in EPODOC **807.477**

[SS 15] laminar or sheet

Results in EPODOC **1.351.484**

[SS 16] paper 1w toilet

Results in EPODOC **465**

[SS 17] toilet 1w paper

Results in EPODOC **6.643**

[SS 18] 11 and 12 and 13 and 14 and 15 and 17

Results in EPODOC **0**

[SS 19] 11 and 12 and 13

Results in EPODOC **1.190**

[SS 20] 17 and 19

Results in EPODOC **1**

[SS 21] ..li



1/1 © EPODOC / EPO

PN - [DE202007008346U](#) U1 20070816

PR - DE20072008346U 20070614

- AP - DE20072008346U 20070614
- DT - *; Rep
- CCI - [A47K10/3818](#)
- PA - MAYER MARION [DE]
- TI - **Mobile dispenser** for dry **toilet paper**, has cylindrical body opened at flat side, and withdrawal opening is provided in center of cylinder **cap**
- AB - The **dispenser** encloses a usual roll of dry **toilet paper**. A withdrawal opening is provided at a side of the **dispenser**. A cylindrical body is opened at a flat side. A withdrawal opening is provided in the center of the cylinder **cap**. The paper roll is unwound from inside towards outside.

[SS 21] ..v

[EPODOC: SS 21] 11 and 12 and 14

Results in EPODOC 380

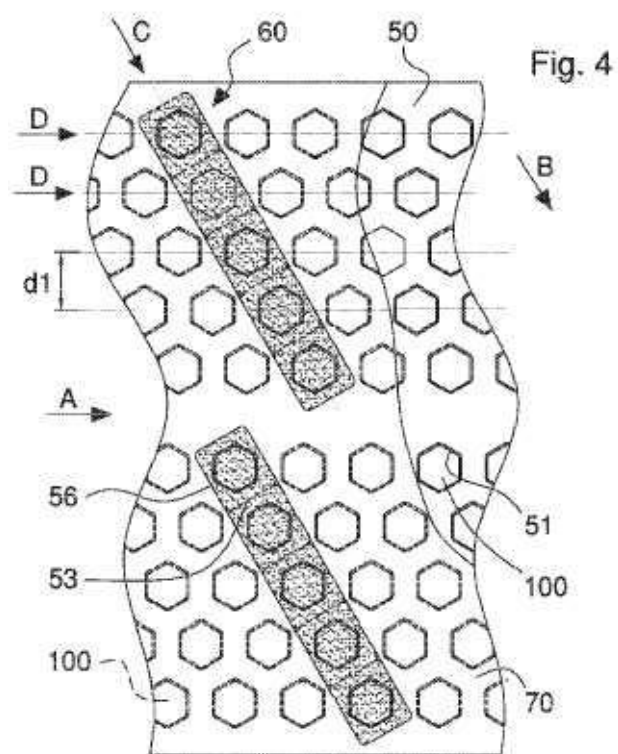
[SS 22] 21 and sheet

Results in EPODOC 6

[SS 23] ..li



PN - [WO2016075604](#) A1 20160519
 PR - IT2014BO00631 20141111
 AP - WO2015IB58592 20151106
 DT - *; Rep
 CT - |EP| ISR (A1)
 [US4656042](#) A 19870407
 [XY] (RISLER PIERRE [FR])
 [X] 17
 * the whole document *
 [Y] 1-16,18,19;
 [US6474500](#) B1 20021105
 [Y] (CARR BRIAN W [US], et al)
 [Y] 1-16,18,19
 * the whole document *;
 [EP0283145](#) A2 19880921
 [XY] (SMITH BROS WHITEHAVEN LTD [GB])
 [X] 17
 * the whole document *
 [Y] 1-16,18,19;
 [EP2412645](#) A1 20120201
 [Y] (SAMAR TECHNOLOGIES LTD [CY])
 [Y] 1-16,18,19
 * the whole document *;
 [EP1693299](#) A1 20060823
 [I] (UHLMANN PAC SYSTEME GMBH & CO [DE])
 [I] 17
 * the whole document *
 CCI - [B65B29/02](#) ; [B65B31/021](#) ;
 [B65B35/38](#) ; [B65B47/02](#) ;
 [B65B61/06](#) ; [B65B9/045](#)
 CCA - [B65B2220/18](#)
 PA - SARONG SPA [IT]
 TI - MACHINE AND METHOD FOR
 PACKAGING CONTAINERS FOR
 BEVERAGE AND **PACKAGE**
 OBTAINED THEREBY
 AB - A packaging machine for
 packaging containers (100)
 containing a product for
 preparing a beverage comprises
 a forming station (2) for forming
 on a thermoformable
 plastics **sheet** (50) **mobile** along
 an advancing direction (A) a



plurality of cavities (51) that are arranged according to a plurality of forming rows (D), which are parallel to the advancing direction (A), the cavities (51) of two adjacent forming rows (D) being arranged staggered and close each other for reducing a respective mutual distance (dl), an inserting station (3) for inserting inside each cavity (51) a respective **container** (100), a closing station (4) for applying and fixing to the **sheet** (50) a covering film (70) in order to close the cavities (51) and carrying out respective sealed housings (55), each of which containing a respective **container** (100), and a first cutting station (5) for cutting the **sheet** (50) and the covering film (70) so as to obtain packages (60), each of which comprising a plurality of sealed housings (55) that are aligned according to at least one packaging row (C) that is parallel to a packaging direction (B), which is transverse to the advancing direction (A), so that the packaging row (C) of each **package** (60) comprises cavities (51) of adjacent forming rows (D).

2/6 © EPODOC / EPO

- PN - [GB2309715](#) A 19970806
 PR - GB19960002393 19960203
 AP - GB19960002393 19960203
 DT - *
 CT - [GB300752](#) A []; [GB351798](#) A [];
[GB498162](#) A []; [GB2134942](#) A [];
[GB2191738](#) A []
 CCI - [E04H15/001](#)
 PA - AYRES JEFFREY IAN [GB]

FIG. E

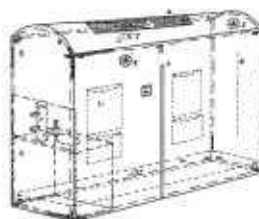
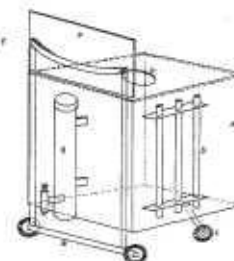


FIG. F



TI - **Mobile** living space

AB - A **mobile** living space in the form of a tent (Fig 1) has a framework which when disassembled can be used in part for forming part of a hand trolley (Fig 3) for carrying the tent and fittings therefor. The trolley can be opened within the canopy of the tent, which has a ground **sheet** (G) which can be converted into a **bag**. The box-like body (E) of the trolley can be unfolded to form an insulating base for the sleeping area, and when folded forms a seat, or a support for a washing facility or a toilet. A water **container** (F) with a tap is also provided. A further **container** (Fig 9, not shown), with a lid, is provided to sit in a recess in the body of the trolley (see Fig 3), the **container** acting as a storage box, a wash basin or a toilet.

3/6 © EPODOC / EPO

PN - [GB1476636](#) A 19770616

PR - GB19730051592 19731107

AP - GB19730051592 19731107

DT - *

CCI - [B65D33/1691](#)

PA - ICI LTD

TI - PLASTICS-FILM CONTAINERS

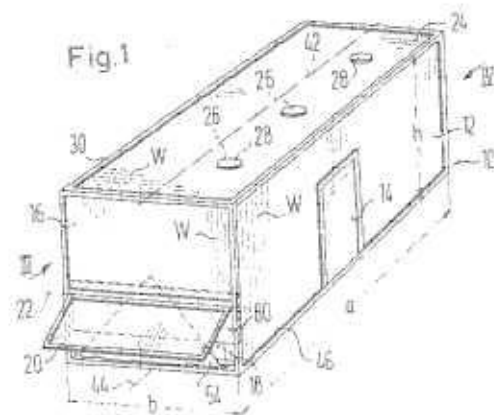
AB - 1476636 Seaming non-metallic **sheet** material IMPERIAL CHEMICAL INDUSTRIES Ltd 11 Oct 1974 [7 Nov 1973] 51592/73 Heading B5K [Also in Division B8] A plastics film **container** has an end closed by a bead seal formed between the opposed edges of the end and by the end then being folded over at least twice and secured in position by a strip of flexible **sheet** material adhered along the whole length of the end and extending from one wall over the folded over end to the other wall of the **container**. The strip may be applied to one wall of the **container** after the first fold and the end and strip then folded about a centre line of the strip which may be located above or beneath the positions of the bead seal after the first fold. The two folds may be in the same or opposite directions. There may be more than 2 folds. The first and perhaps the second fold may be adhered to the wall of the **container**, for example by a vinylidene chloride copolymer coating. The strip may comprise a self adhesive tape, a heat sealable tape or a polyester heat seal coated tape. The tape may be of the same material, for example

polyethylene terephthalate, as the film, or of paper, or woven or bonded fabric. The bead seal may be formed by radiant, or hot air heating of clamped edges, or by simultaneously or successively severing and sealing a continuous web. The **container** may be sealed at both ends and then be filled with a carbonated beverage as in Specification 1,251,672. Alternatively the end of a gusseted **bag** for heavy **mobile** contents may be closed in this way.

4/6 © EPODOC / EPO

PN - [GB1386504](#) A 19750305
 PR - DE19712146463 19710916
 AP - GB19720042725 19720914
 DT - **
 CCI - [B65D90/047](#)
 CCA - [B65D2590/046](#)
 PA - ALKOR OERLIKON PLASTIC GMBH;
 HUELS CHEMISCHE WERKE AG
 TI - **CONTAINER**
 AB - 1386504 Containers ALKOR-

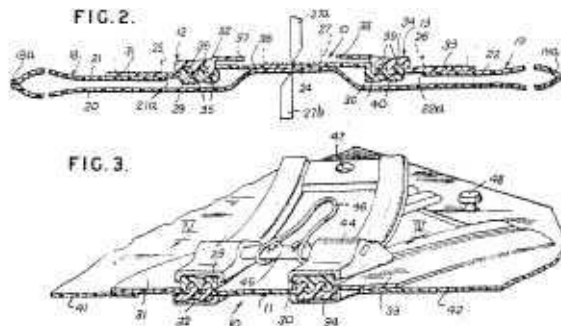
OERLIKON PLASTIC GmbH and
 CHEMISCHE WERKE HULS AG 14
 Sept 1972 [16 Sept 1971]
 42725/72 Heading B8P
 A **container** 10 for flowable
 goods has an openable flap 20
 in one end wall 16 and is lined
 with a flat synthetic plastics **bag**
 (32) so disposed within
 the **container** that a **bag** lappet
 54, serving as an outlet pipe is
 formed adjacent the flap 20.
 The **container** is made of
 corrugated **sheet** metal and has
 openings 26 in its top co-
 operating with filling pipes (50)
 of the liner **bag**. The liner **bag** is
 fixed in the **container** by means
 of hooks (64) welded to the **bag**
 engaging rods (66) secured to the
 inner longitudinal **container**
 edges and clamping strips (72)
 clamping the **bag** lappets (58, 60)
 opposite the wall 16 against
 the **container** transverse edges.
 Alternatively, the upper **bag**
 lappets (56, 60) may be secured
 on winding mandrels (57, 61).
 The outlet **bag** lappet 54 is



passed beneath a cylindrical rod (78) and is supported between the flap 20 and a removable plate 80. In modifications, the removable plate 80 is replaced either by a plate (102) having at its base a cylindrical rod (104) and pivotable to be attachable to the **container** top, or by a pivoted plate (204) having a cylindrical rod (208) at its base and comprising two hingedly connected parts which are attachable to the inside of the **container** end wall 16. The **container** is emptied by removing the tip (98) of the **bag** lappet 54, supporting the **bag** lappet 54 on a plate (92, 111 or 211) and guiding it into a hopper (94) or attaching to it an outlet pipe (106 or 206) having a shut-off **slider** (112 or 212), and tilting the **container** by means of hydraulic lifting gear (86) of a tipping platform (82).

5/6 © EPODOC / EPO

- PN - [GB957825](#) A 19640513
- PR - US19610142381 19611002
- AP - GB19620034856 19620912
- DT - **
- CCI - [A44B19/34](#) ; [A45C13/1023](#) ;
[B26F1/20](#) ; [B65D33/2591](#)
- CCA - [A44B19/16](#) ; [A44B19/267](#) ;
[Y10S24/39](#) ; [Y10T24/2502](#) ;
[Y10T24/45168](#)
- PA - FLEXIGRIP LTD
- TI - Improvements relating to closure devices
- AB - 957,825. Pouches. FLEXIGRIP Ltd. Sept. 12, 1962 [Oct. 2, 1961], No. 34856/62. Heading A4G. [Also in Division E2] A closure device for e.g. a **pouch** comprises a central strip 11 and a pair of edge strips 12, 13 each for attachment to a



wall of a **container** the central strip having opposite thickened marginal portions 29, 30 for releasable connection to thickened marginal portions 32, 34 of the edge strips by means of longitudinally extending interlocking hook elements of the cooperating marginal portions. The hooks are engaged and disengaged either by hand or by the use of a **slider** assembly comprising two sliders joined by a bar on which is a wire loop 46 which can be engaged with a button to prevent unwanted movement of the **slider**. The central strip has an aperture 47 which is first engaged with the button for greater security. The **slider** assembly can either be cast as shown or made of **sheet** metal. The closure device can either be used to provide a relatively wider opening in a single **pouch** or alternatively can be used as shown in Fig. 2 to provide the closures for two pouches the edge strips being secured respectively to walls 18 and 19 and the centre strip to a wall 24 by means of a longitudinal seam, the central strip and wall being subsequently divided to form the two pouches. Specification 672,007 is referred to.

PN - [GB1407507](#) A 19750924

PR - GB19730000907 19730106

AP - GB19730000907 19730106

DT - *; Rep

CCI - [B29C65/18](#) ; [B29C66/43](#) ;
[B29C66/43121](#) ; [B29C66/80](#) ;
[B29C66/81261](#) ; [B29C66/81427](#) ;
[B29C66/81431](#) ; [B29C66/8221](#) ;
[B29C66/8324](#) ; [B29C66/861](#) ;
[B65B51/148](#)

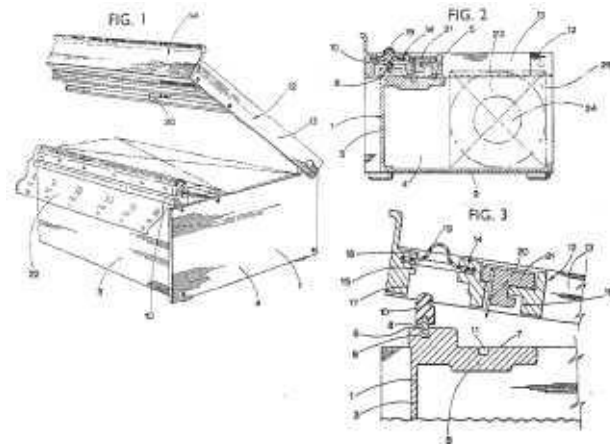
CLC - [B29C66/8122](#) , [B29K2827/18](#) ,
ADD

CCA - [B29C66/8122](#) ; [B29C66/81417](#) ;
[B29C66/81871](#)

PA - ASS SPRAYERS LTD

TI - JOINING THERMO-PLASTICS **SHEET**
MATERIALS

AB - 1407507 Roll dispensers
ASSOCIATED SPRAYERS Ltd 3 April
1974 [6 Jan 1973] 907/73
Heading B8M [Also in Division
B5] In a combined **dispenser** and
heat sealing assembly for
thermoplastic film, Figs. 1-3,
superimposed film portions 22
on a support 10 are sealed by
placing a layer 19 of heat
resistant material over the
uppermost portion and passing
heating means over an exposed
outer face of the layer 19, (see
Division B5). The **dispenser**
comprises a **container** 1 having a
partial top wall 5 having a slot 9
in which is mounted a carrier 8
for an elongate support strip 10
of silicone rubber. A skeletal lid
12 is provided with a holder 14
for a flexible layer of heat
resistant material, e.g.
polytetrafluoroethylene or glass
fibre impregnated with P.T.F.E. A
knife blade 20 is carried by
a **slider** 21 guided by the holder
14 and, in its operative position,
projects into a slot 11 in the wall
5. The film 22 is in the form of a



flattened continuous sleeve 23,
 Fig. 2, wound on a roller 24
 housed in a square
 section **dispenser** 25 have a
 dispensing slot therein. In use,
 the required **bag**-length of film is
 withdrawn from the **dispenser**
 and severed by traversing the
 blade 20 along the slot 11. With
 the lid 12 in its operative closed
 position, superimposed end
 portions of the **bag**, both before
 and after filling, are clamped
 between the layer 19 and the
 strip 10 and a domestic hot-iron
 is passed over the layer 19 to
 effect sealing.

[SS 23] ..v

[EPODOC: SS 23] 11 and 12 and 13

Results in EPODOC 1.190

[SS 24] sheet and 23

Results in EPODOC 23

[SS 25] ..li



1/23 © EPODOC / EPO

PN - [CN205156480U](#) U 20160413

PR - CN20152946641U 20151124

AP - CN20152946641U 20151124

DT - I

PA - LIU DINGJUN

TI - Human sample **container** transportation storage device

AB - (B,) human sample **container** transportation storage device (b) (b). (B,) its constitution of (b) this product is including (b) (b): (B,) (b) air -cooled frostless refrigerator -freezer, air -cooled frostless refrigerator -freezer interior casing has, the horizontal partition panel of inner shell body coupling, the bottom of interior casing connect a slide and no. Two slides, slide with no. Two equal link block of slide, the **slider** connect to slide erect the baffle, the slip one side of erecting the baffle connect the swivel nut, the swivel nut connect telescopic screw rod, the telescopic screw rod connection openings elastic fixation circle, the both sides of opening part of opening elastic fixation circle all

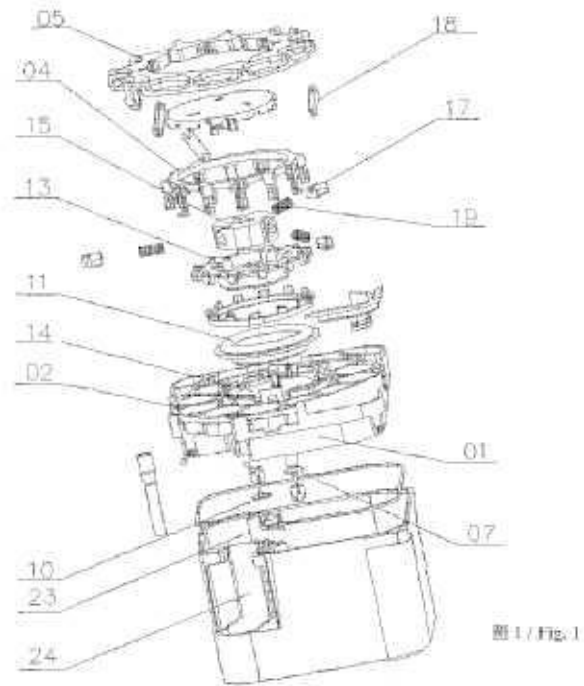
connect the closure **plate**, the closure **plate** all connect the magnetic **sheet**, the closure **plate** pass through the mutual actuation of magnetic **sheet** connect, the fixed human sample take up **container** of opening elastic fixation circle, human sample take up **container** with interior casing the slip erect space between the baffle software foam of packing into. The utility model is used for transportation and the human sample **container** of storage. (B,)

2/23 © EPODOC / EPO

- PN - [CN204829176U](#) U 20151202
- PR - CN20152501040U 20150710
- AP - CN20152501040U 20150710
- DT - I
- PA - ZHEJIANG HUAXU IND CO LTD
- TI - **Mobile** device lay folding panel
- AB - The utility model relates to a **mobile** device lay folding panel, including the panel body, adopt behind the above technical scheme: the utility model discloses a preceding supporting legs portion and back supporting legs portion use the folding path to fold as the medium line, knead dough 4 backplates that constitute in the preceding supporting legs portion of the edition of books body 1 by faulted joint 5 simultaneously and be used for blocking the back of **mobile** device, then folding bottom **plate** and opening sand grip is connected be used for fixed with adjust before supporting legs portion angle between the supporting legs portion after and, the folded **sheet** is used for putting up firmly **mobile** device base at present together for the **mobile** device can not followed the utility model discloses landing on the **dispenser** that folding back constitutes, then side folded **sheet** normal condition do not need down folding forward, but if on the vehicle that goes, the **mobile** device is in the utility model discloses on the **dispenser** of constitution, at this moment the condition of shake about can appearing can toward the outer side that is used for the frame to live the **mobile** device of folding, can play stable effect with the folded **sheet** that inclines.

3/23 © EPODOC / EPO

PN - [CN103230243](#) A 20130807
PR - CN20131123272 20130410
AP - CN20131123272 20130410
DT - I
CCI - [A47K10/3827](#)
CCA - [A47K2010/3273](#)
PA - LIN WEIDONG
TI - Wipe supplying device
AB - A wipe supplying device relates to the technical field of daily articles and solves the technical problem that an existing device is inconvenient to use and laborious. The wipe supplying device comprises a liquid **container**, a turnplate seat, a **slider** and a locker. The turnplate seat is arranged at the upper end of the liquid **container**, the center of the turnplate seat is provided with a water intaking pit, and the edge of the turnplate seat is provided with a wipe dropping hole; the turnplate seat is provided with a ring-shaped turnplate, and a plurality of wipe storage grooves are arranged on the turnplate in an axial symmetry mode, the inner ring of the turn **plate** is provided with a circle of guide teeth; a soft film **sheet** separates the water intaking pit into an upper cavity and a lower cavity, the upper cavity is a driving cavity, and the lower cavity is a water intaking cavity; the **slider** is movably arranged in the driving cavity, the outer edge of the **slider** is provided with a plurality of supporting feet; and the locker is movably arranged inside the water intaking cavity and fixedly connected with the **slider**. The turnplate rotates to drive the **slider** and the locker to slide vertically, and then the



soft film **sheet** expands and contracts to suck water inside the liquid **container** into the water intaking cavity and discharge the water into a wipe **container** on the outer wall of the liquid **container**. The wipe supplying device is convenient to use and labor-saving.

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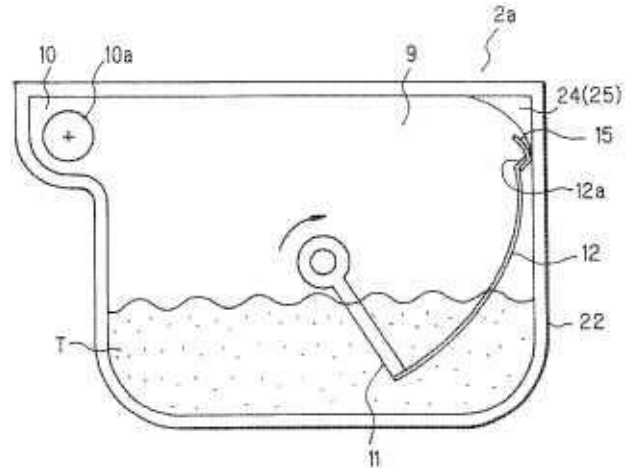
- PN - [CN201255361Y](#) Y 20090610
PR - CN20082152998U 20080911
AP - CN20082152998U 20080911
DT - I
PA - SHEN JIECHAO [CN]
TI - **Mobile** phone backlight light increasing piece distributor
AB - The utility model relates to a **sheet**-stripping device, in particular to a **mobile** phone backlight brightness enhancement film **dispenser**. The **dispenser** comprises a set of upper and lower dilatation axes on which dilatation axis-adjusting caps are arranged; wherein, a feeding wheel disc is arranged on one side of the connecting line of the centers of the dilatation axes; an upper separating **plate** and a lower separating **plate** are arranged on the other side of the connecting line of the centers of the dilatation axes; and a passable gap is arranged between the upper and the lower separating plates. The utility model mainly resolves the technical problem that since all of the prior backlight brightness enhancement film processing manufacturers adopt the manual stripping method to strip backlight materials, the number of nonconforming backlight materials is increased; and moreover, the stripping speed is high.

5/23 © EPODOC / EPO

- PN - [CN201113176Y](#) Y 20080910
PR - CN20072114967U 20070921
AP - CN20072114967U 20070921
DT - I
PA - GUANGHUI HU [CN]
TI - **Mobile** connector
AB - The utility model relates to a power supply connection device, in particular to a flexible jumper used in a rotating device. The jumper is arranged on a rotation shaft of a hermetic **container** manufacturing device, and divided into two groups. Each group comprises a rotor and a touch **sheet** in a sliding contact with the rotor. The rotor is sleeved over the rotation shaft to synchronously rotate together with the rotation shaft. One end of the contact **sheet** is fixed to a fixing **plate**, and the other end of the contact **sheet** contacts with the conductive surface of the rotor. The current conduction is realized through slidable connection between the rotor and the contact **sheet** to prevent wire winding.

6/23 © EPODOC / EPO

- PN - [US6421517](#) B1 20020716
- PR - JP20000169641
20000606; JP20000186632
20000621
- AP - US20010874214 20010606
- DT - *; Rep
- CT - || STSE (B1)
[US6026263](#) A 20000215 [
] (NAKAHATA AKINOBU [JP], et al);
[USRE37542E](#) E 20020205 [
] (ICHIKAWA HIDEO [JP], et al)
- CCI - [G03G15/0875](#) ; [G03G15/0877](#)
- PA - SHARP KK [JP]
- TI - Toner supply device with
rotatable agitating element
- AB - The length of a conveying **sheet**
is set to be greater than the
rotational radius of an agitating
element so that the distal end of
the conveying **sheet** will slide
over the inner wall of the
toner **container**. A **slider** element
having a low frictional
resistance is attached at the
distal end of the
conveying **sheet**. The **slider**
element preferably has a low
coefficient of dynamic friction
and is preferably made of a soft
resilient material having a
thickness smaller than the
conveying **sheet**. Cutouts or
openings may be preferably
formed at the distal part. A
multiple number of ribs are
attached to the wall surface of
the toner **container** at the highest
position at which the wall and
the top **plate** meet. The ribs are
arranged apart from each other
in the direction parallel to the
agitating shaft of the agitating
element. Each rib is a **plate**-like
element projected inward from
the wall surface in the



toner **container** with its width put in the direction of the spacing. Further the end portions of the ribs on the interior side of the toner **container** are adapted to form a curved surface smoothly connecting the top **plate** surface and the wall surface.

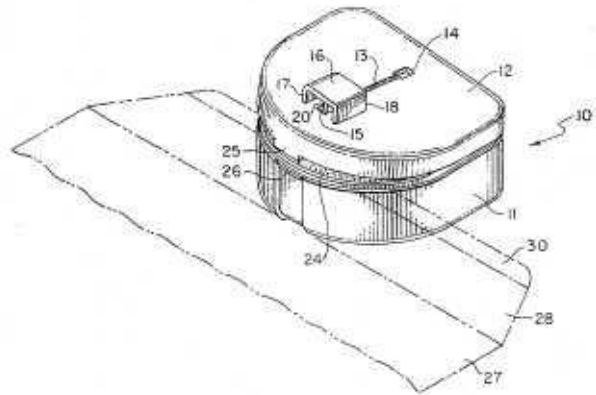
7/23 © EPODOC / EPO

PN - [US5531828](#) A 19960702
 PR - US19950419090 19950410
 AP - US19950419090 19950410
 DT - *
 CT - [US1018592](#) A []; [US2564842](#) A [];
[US4069789](#) A []; [US4180430](#) A [];
[US5316581](#) A []; [DE172431](#) C [];
[GB962493](#) A []

CCI - [B43M11/04](#)

TI - Adhesive moistener

AB - A device for moistening the adhesive of a **sheet** material such as the flap of an envelope or a postage stamp, is disclosed having a **container** with hinged lid. A moistened sponge is stored in the **container** having raised a step adjacent to the latch closure of the lid with the front wall of the **container** and is provided with a deep recess adjacent to the hinge connection of the lid with the **container**. A **slider** is movably carried on the lid and includes a pressure **plate** adapted to press against the top surface of the inserted **sheet** material forcibly urging the adhesive surface onto the moistened sponge step. The **slider** has two positions, one position with the pressure **plate** projecting into the recess when the lid is closed and the other



position when advanced to be adjacent the step. A limit stop is carried on the **container** beneath the sponge step for limiting pivotal movement of the lid to prevent latching of the lid when the **slider** is in its advanced position.

8/23 © EPODOC / EPO

PN - [JPH04350026](#) A 19921204
 PR - DE19904028643 19900909
 AP - JP19910229139 19910909
 DT - I
 CCI - [B65H1/266](#) ; [B65H1/04](#) ; [G03B23/02](#) ; [G03G15/6502](#)
 CLC - [B65H2511/10](#) , [B65H2220/01](#) , ADD
 CCA - [B65H2511/10](#)
 FI - B65H1/00&501; B65H1/04&320; G03B23/00
 FT - 3F343/FA09; 3F343/HB07; 3F343/HC11; 3F343/HC15; 3F343/HE04; 3F343/HE17; 3F343/KB03; 3F343/KB20
 PA - LICINVEST AG
 TI - **CONTAINER OF SHEETBUNDLE**
 AB - PURPOSE: To display even the sheets of small size on a position of a display window by comprising guide members which are mounted at an interval corresponding to a first value, for pressing the stack of sheets from both sides thereof, and a means for adjusting the interval to an interval for aligning the sheets of a size smaller than the first value to a position of the display window. CONSTITUTION: Guide members 300 have L-shaped sections, and comprise **sheet** supporting arms 304 in parallel with a transparent **plate** 202 of a display window 200. The points of the **sheet** supporting arms 304 are opposite to each other, and its interval is determined so that they can support the sheets of the minimum width for preventing the sheets from dropped from an opening of a bottom of a **slider**. The upward arms 308 of the guide members 300 have an interval (e) necessary for storing the sheets of the maximum width. By using the adjustment members 302, an interval (d) of the upward arms 308 can be limited to a new interval (c), and the sheets of the width of $b=a+(c-a)/2$ can be displayed for the total display window 200 in the condition that the sheets are kept into contact with one of the adjustment members 302.

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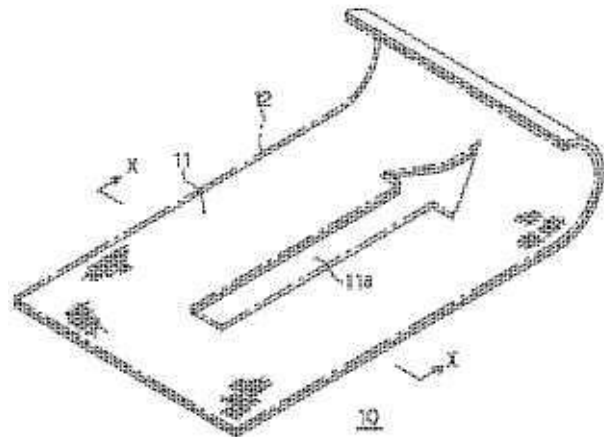
PN - [JPS6453972](#) A 19890301
 PNFP - JP2634052B B2 19970723
 PR - JP19870210638 19870825
 AP - JP19870210638 19870825
 DT - I
 FI - B65H29/14&Z; B65H29/22&Z; B65H29/46; B65H31/06; B65H5/10&A; B65H5/16;

	B65H83/00; G07D9/00&416C
FT	- 3E040/AA01; 3E040/AA03; 3E040/AA07; 3E040/BA07; 3E040/FC05; 3E040/FG03; 3E040/FG18; 3F049/AA06; 3F049/CA02; 3F049/DA02; 3F049/DB04; 3F049/EA02; 3F049/EA04; 3F049/EA27; 3F049/LA08; 3F049/LB04; 3F054/AA03; 3F054/AC06; 3F054/BA11; 3F054/BB24; 3F054/BD03; 3F054/BD07; 3F054/BF03; 3F054/BF09; 3F054/BF23; 3F054/BG15; 3F054/BH17; 3F054/CA03; 3F100/AA06; 3F100/BA03; 3F100/BA11; 3F100/BA12; 3F100/BA24; 3F100/CA03; 3F100/CA05; 3F100/CA06; 3F100/CA08; 3F100/CA12; 3F100/CA17; 3F100/DA01; 3F100/DA03; 3F100/EA06; 3F100/EA11; 3F100/EA13; 3F100/EA17; 3F100/EA19; 3F101/CA02; 3F101/CB02; 3F101/DA01; 3F101/DB04; 3F101/DC02; 3F101/LA08; 3F101/LB04; 3F106/EA01; 3F106/HA03; 3F106/HA07; 3F106/LA08; 3F106/LB04
PA	- (A) NEC CORP; NIPPON ELECTRIC ENG; NIPPON SEIMITSU KOGYO
TI	- (A) SHEET CONVEYOR
AB	- (A) PURPOSE: To make a sheet in a cash credit dispenser or the like conveyable without making a rotor frequent appearances in a conveyor passage by installing a partitioning member which elastically deforms the rotor and partitions it from an end of the sheet . CONSTITUTION: When stacking is over, a motor rotates clockwise, a sweep shutter 112 moves along a guide 10, and thereby a route 27 and a double-face turnover space 100 are partitioned off so as to retract an elastic piece of a sweeper 135. When closure of the shutter 112 is confirmed by a position sensor, a latch lever of a slider 175 is disconnected. Consequently, this slider 175 is moved to the side of a delivery position, while another slider 163 is moved to the delivery position side by dint of restoring force of a spring 169. And, since an interval between a front plate 109 and a backup plate 111 is not narrowed at once, a sheet of a bill or the like has the degree of freedom even during its movement, and it is aligned by vibration as a guide 105 and a sheet lower end are being slipped.
10/23	© EPODOC / EPO
PN	- JPS6181357 A 19860424
PR	- JP19840204423 19840929
AP	- JP19840204423 19840929
DT	- I
CCI	- B65H31/20
CCA	- B65H2701/1912
FI	- B65H31/20
FT	- 3F054/AA03; 3F054/AC06; 3F054/BA02; 3F054/BB14; 3F054/BD02; 3F054/BE03; 3F054/BE07; 3F054/BE13; 3F054/BH12; 3F054/BH21; 3F054/BH26; 3F054/BJ12; 3F054/BJ13; 3F054/BJ15
PA	- TOSHIBA CORP
TI	- CONTAINER OF PAPER SHEETS
AB	- PURPOSE: To enable a paper sheet container part to easily respond to the change in the size of sheet , by forming a variable means of said paper sheet container part in such a

manner as making positioning process, while inhibiting any shift of partitioning members by means of a plurality of positioning spacers selectively interposed between the fixed parts and **mobile** parts. CONSTITUTION: When the volume of a **container** part 31 is made to match the size of paper **sheet**, positioning spacers 108, 109 matching the assigned size are attached to a shaft 77 and a base 9 respectively and if a knob 91 is turned clockwise, a shaft 93 turns anticlockwise, causing a left-hand holder 98 and a right-hand holder 97 to shift leftward and rightward respectively, and where a joint **plate** 99 hits the positioning space 109, partitioning side plates 73, 74 in the minor direction are positioned. Next, if a knob 78 is turned clockwise, a front side holder 81 and rear side holder 82 shift to the front side and rear side respectively and when the front side holder 81 hits the space 108 partitioning side plates 71, 72 in the major direction are positioned. Accordingly, the **container** part can easily respond to the changes in the size caused by various kinds of bank note different in their sizes and by exchange of the note itself.

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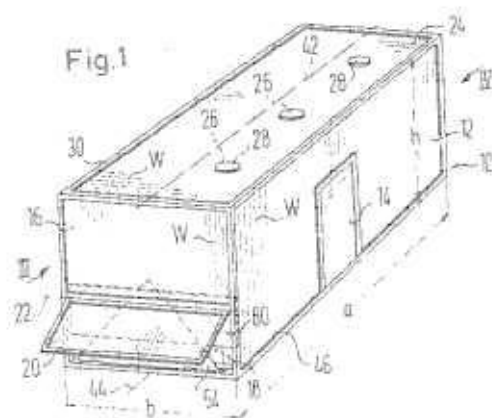
- PN - [JP2000345514](#) A 20001212
- PR - JP19990155964 19990603
- AP - JP19990155964 19990603
- DT - I
- FI - E01C23/16&A; E01C23/20&A;
E01C23/20&Z; E01C23/24
- FT - 2D053/AA28; 2D053/AD01;
2D053/EA01; 2D053/EA11
- PA - VOC DIRECT KK
- TI - CONSTRUCTION METHOD FOR
ROAD MARKING AND TEMPLATE
USED THEREFOR
- AB - PROBLEM TO BE SOLVED: To
simplify the work of making a
road surface mark by forming a
hole for a template for a road
mark in a flexible heat
resistant **sheet** material and by
using a template with a
protective film on the surface
and a **mobile** paint applicator.
SOLUTION: A hole 11a having a
shape of road mark is made in
a **sheet** material 11 having
flexibility and heat resistance, a
protective film 12 made of a
fluororesin or the like is formed
on the whole surface and a
template 10 for road surface
mark is prepared. The template
10 is spread at a predetermined



position on the road surface, primer is applied through the hole 11a, a carriage loaded with a coating machine and a paint storing **container** is moved on the template 10, a paint heated to about 200 deg.C is flowed to the hole 11a, and the thickness of the paint is made uniform with a regulating **plate**. In the early period of hardening of the paint, the temperate 10 is peeled off and a road surface indication is formed. The paint stuck to the temperate is peeled off through the protective film 12 and then removed. In this way, the road surface mark-forming work is simplified and the efficiency in the dangerous work on the road surface can be enhanced.

12/23 © EPODOC / EPO

- PN - [GB1386504](#) A 19750305
 PR - DE19712146463 19710916
 AP - GB19720042725 19720914
 DT - **
 CCI - [B65D90/047](#)
 CCA - [B65D2590/046](#)
 PA - ALKOR OERLIKON PLASTIC GMBH;
 HUELS CHEMISCHE WERKE AG
 TI - **CONTAINER**
 AB - 1386504 Containers ALKOR-OERLIKON PLASTIC GmbH and CHEMISCHE WERKE HULS AG 14 Sept 1972 [16 Sept 1971] 42725/72 Heading B8P
 A **container** 10 for flowable goods has an openable flap 20 in one end wall 16 and is lined with a flat synthetic plastics bag (32) so disposed within the **container** that a bag lappet 54, serving as an outlet pipe is formed adjacent the flap 20. The **container** is made of corrugated **sheet** metal and has



openings 26 in its top co-operating with filling pipes (50) of the liner bag. The liner bag is fixed in the **container** by means of hooks (64) welded to the bag engaging rods (66) secured to the inner longitudinal **container** edges and clamping strips (72) clamping the bag lappets (58, 60) opposite the wall 16 against the **container** transverse edges. Alternatively, the upper bag lappets (56, 60) may be secured on winding mandrels (57, 61). The outlet bag lappet 54 is passed beneath a cylindrical rod (78) and is supported between the flap 20 and a removable **plate** 80. In modifications, the removable **plate** 80 is replaced either by a **plate** (102) having at its base a cylindrical rod (104) and pivotable to be attachable to the **container** top, or by a pivoted **plate** (204) having a cylindrical rod (208) at its base and comprising two hingedly connected parts which are attachable to the inside of the **container** end wall 16. The **container** is emptied by removing the tip (98) of the bag lappet 54, supporting the bag lappet 54 on a **plate** (92, 111 or 211) and guiding it into a hopper (94) or attaching to it an outlet pipe (106 or 206) having a shut-off **slider** (112 or 212), and tilting the **container** by means of hydraulic lifting gear (86) of a tipping platform (82).

PN - [GB924610](#) A 19630424

PR - DE1960R027430
19600226; DE1960R027765
19600414

AP - GB19600035030 19601013

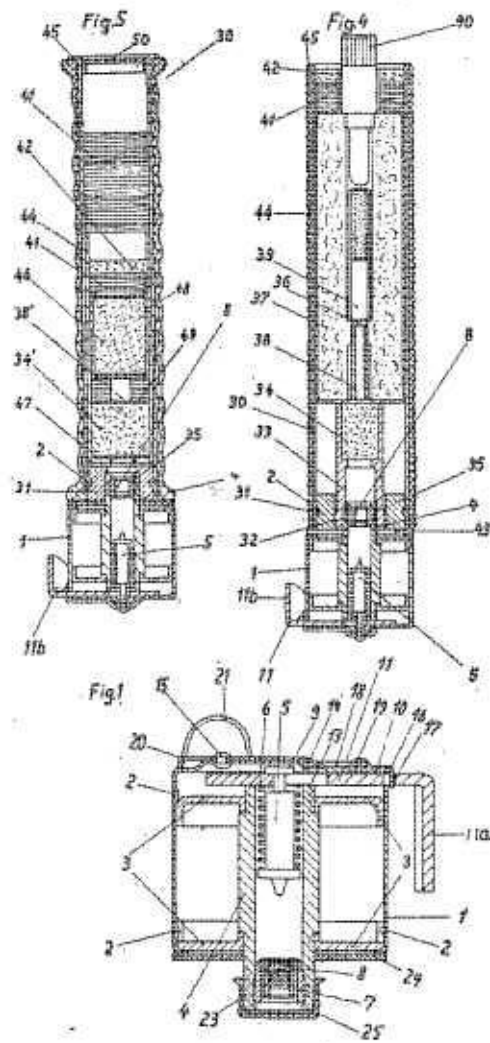
DT - **

CCI - [F42B4/22](#) ; [F41C3/02](#) ;
[F41F7/00](#) ; [F42C7/12](#) ;
[F42C14/02](#) ; [F42C15/20](#)

PA - HERTAKLOSTERMANN

TI - Improvements in or relating to
fire-arms

AB - 924,610. Firearms; pyrotechnic
missiles; grenades. H.
KLOSTERMANN, [trading as R.
RINKER [Firm of]]. Oct. 13, 1960
[Feb. 26, 1960; April 14, 1960],
No. 35030/60. Classes 9 (1), 9
(2), 92 and 119. A firearm for
projecting signal flares, smoke
and explosive charges is
provided with a firing device
comprising a tubular member 4,
Fig. 1, supported within a
cylindrical housing 1 by means
of two collar-like flanges 3, the
member 4 containing at one end
a spring-urged striker 5 and at
the other end a screwed-in
percussion **cap** carrier 7 with a
detonator **cap** 8. A laterally
displaceable **slider** 11 is
provided with a key-hole shaped
aperture 13 which in its narrow
part engages in an annular
groove 9 in the striker when in
its cocked state, lateral
movement of the **slider** 11
permitting the striker 5 to pass
through the widened portion of
the aperture 13 to fire the **cap** 8.
The **slider** 11 is held against
movement by a safety device
comprising a leaf spring 14
rotatably mounted by means of a
rivet 15 on the bottom 10 of the
housing 1 and having a



projection 16 engaging in a depression or an aperture 17 of the **slider**. A wire ring 18 provided with a bent-up portion 21 is secured to the leaf-spring 14 to affect movement thereof. For firing an explosive projectile, a firing tube 30, Fig. 4, is secured to the housing 1 by means of a ring 31 provided with a tapped bore 32 into which a tube 33 adapted to receive a propelling charge 34 is screwed; the tube 33 has an internal thread 35 for screwing it on an externally threaded projecting portion of the member 4 of the firing device. The propelling charge 34 acts on a **sheet** metal covered explosive charge 37 provided with an axial aperture 36 lined with a stepped tube. Arranged in this tube is a timedelay fuze 38 and a detonating **cap** 39, the free end of the tube being closed by a screw 40, and packing rings 41, 42 being provided to prevent the explosive charge being impaired by dampness. A packing ring 43 is also provided between the ring 31 and housing 1. A fluted sleeve 44 of rubber covers the firing tube 30. Fig. 5 shows a flare composition 46 arranged in the firing tube 30 which in this case is secured directly by its ring 31 to the member 4. A **container** 47 holds a propelling charge 34<SP>1</SP> adjoined by a time-delay set 381 and the flare composition 46 housed in a casing 48, spacers 49 of cork or felt being arranged between individual elements. Packing discs 41, 42 are provided together with a plastic **cap** 50. The sleeve 44 and/or the housing 1 is provided with colours corresponding to the colour of

the flare composition.

14/23 © EPODOC / EPO

PN - [GB1076976](#) A 19670726

PR - GB19630029014 19630722

AP - GB19630029014 19630722

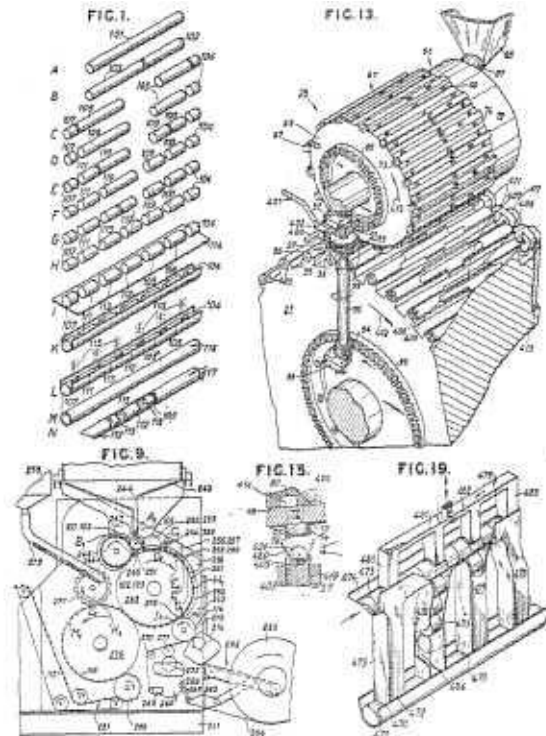
DT - **

CCI - [A24C5/475](#)

PA - KURT KOERBER

TI - Method and apparatus for producing filter cigarettes, filter rods or other rod-like articles consisting of two or more component parts

AB - 1,076,976. Tobacco smoke filters. K. KIRBER. Aug. 11, 1964 [July 22, 1963; Aug. 9, 1963; Aug. 19, 1963], Nos. 29014/63, 31553/63 and 32673/63. Heading A2C. Tobacco smoke filter components or a filter component and a cigarette length are spaced apart, partially enclosed in a wrapper and the gap filled with a powder or granular filter material. As shown in Fig. 9 filter rods 101 (Fig. 1A) are fed from a magazine 243 to a roll 245 which delivers the rods 101 to a cutting drum 246. A cutter 247 cuts the rods into two portions 102, 103 (Fig. 1B). The portions 102, 103 are then transferred to a further cutting drum 249 and axially separated by a shifter plate 251. Cutters 252, 253 then cut single plugs 104, 107 from the portions 102, 103 (Fig. 1C), and two further shifter plates 254, 255 move the plugs 104, 107 to the position shown in Fig. 1D. Three further cutters 256, 257 and 258 cut the remainder of the filter rod portions into double plugs and further shifter plates 259-261 move the cut filter plugs



apart (Figs. 1E-1H). Connector sheets 114 are applied to the cut filter plugs on the drum 249 by a drum 273 (Fig. 1I). The sheets are cut from a web 264 which is drawn from a reel 263, passed gumming device 271, 272 and cutter 274. The cutter drum 249 presses the filter plug groups 275 into the grooves of a wrapping drum 276 so that the **sheet** 114 encloses the plugs 275 to the extent of about half their peripheral span (Fig. 1K). A gap filling device 277 inserts a measured amount of granulate in the pockets formed between adjacent plugs and the **sheet** 114 (Fig. 1L). The granulate is fed to the device 277 from a **container** 278 through a pipe 279. The connector **sheet** 114 is then completely wrapped around the plugs by blade-like elements on the drum 276 and the multiple rods 116 (Fig. 1M) thus produced are transferred to a testing device 280 which delivers them to a chain 281 for onward conveyance. In further embodiments various combinations of kinds of filter rod parts are used and the granulate may be inserted between the cigarette length and the filter component instead of between two filtered components. The filling device 277 comprises a stationary inner body 66 (Fig. 13) around which an outer body 67 is rotatably mounted. The outer body consists of a casing 68 and an end 69 connected by gearing 89, 91, 94, 95 to the wrapping drum 27. Passages 72 (Fig. 15) are provided in the casing 68 of which the volume is equal to the amount of granulate to be

inserted into the pocket of a half wrapped group. Sliders 73 are provided with ports 75 which can register with the passages 72 then with ports 76, coincident with the passages 72 provided in holders 74 for the sliders 73. The inner body 66 includes a cylindrical part 80 having sectional cut away parts which accommodate the granulate, fed in from a funnel 88, and mixer devices. The sliders 73 are moved to an operative position at the appropriate time by rollers 99 on a triangular disc 96 fitted on the spindle 90 between the gear 91 and 94. The sliders are returned to their non operative position by a roller fixed at the same end of the device as the funnel 88. The rollers 99 may be rendered inoperative by raising a lever 401 which lowers the disc 96 out of the region of the sliders 73. The lever 401 can be operated automatically by a control lever which responds to the presence of sheets 408, filter plugs 407 or cigarettes 406 in the grooves 405 of the wrapping drum 27. After filling with granulate the connector **sheet** 420 (Fig. 15) is wrapped around the assembly by blades 409, 410. If the granulate is in the form of preshaped mouldings or pressings 473 (Fig. 19) a device comprising a channel 474 along which the mouldings are guided and a reciprocating **slider** 479 is used. Plungers 480-483 on the **slider** 479 push the mouldings into ducts 475-478 through which they are inserted between the plugs 470. The mouldings are prevented from falling out of the ducts by blade springs 484.

15/23 © EPODOC / EPO

PN - [GB1270295](#) A 19720412

PR - IT19200008320 19680427

AP - GB19690021627 19690428

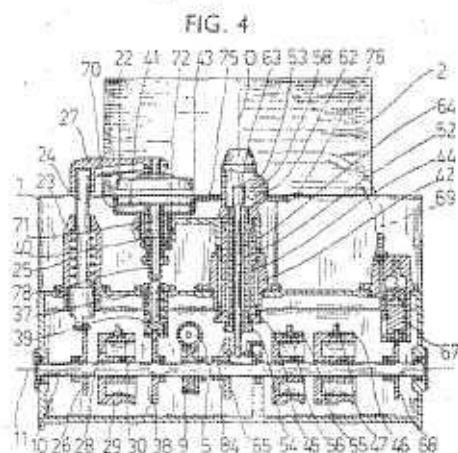
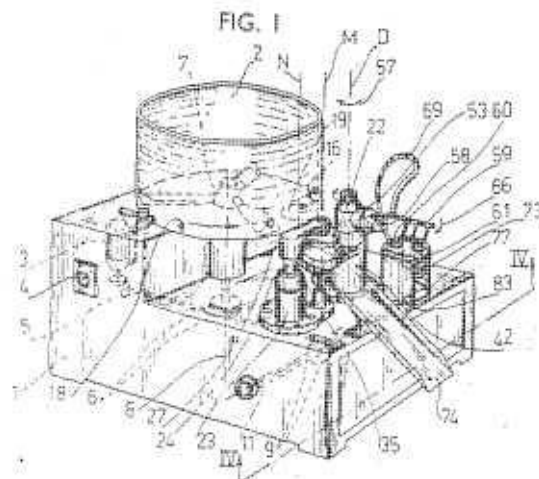
DT - *

CCI - [A22C7/0076](#) ; [A22C7/00](#)

PA - A M B DI ANTONIO MEZZAQUI
TORN [IT]

TI - A MACHINE FOR AUTOMATICALLY
PREPARING HAMBURGER-TYPE
STEAKS

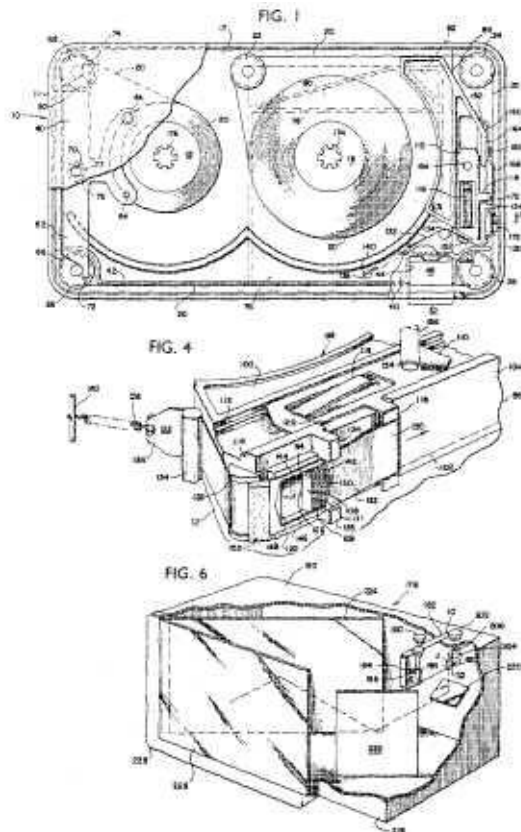
AB - 1,270,295. Moulding Hamburger-like steaks. OFFICINA A.M.B. DI ANTONIO MEZZAQUI TORNERIA MECCANICA. 28 April, 1969 [27 April, 1968], No. 21627/69. Heading B5A. [Also in Division A2] A machine for preparing hamburger-like steaks from minced meat comprises a **container** for the minced meat, said **container** having blades which supply and press the minced meat into a cavity in the base of said **container**, a lever arm comprising a disc for receiving a steak from the cavity of said **container**, means for placing a protective **sheet** on the disc before it receives the steak and on the steak after it is placed on the disc, means for pressing the steak when the disc is located in a second **container** and means for ejecting the steak from the disc on to a conveyer. In the apparatus shown, the parts of the apparatus are operated in the correct sequence by an electrically driven camshaft. The minced meat **container** 2 has a cavity 19 in its base. Rotating hub 7 carries blades pivotable about a horizontal axis. The blades normally move with only the rear in contact with the base



of **container** 2 so that the minced meat is pushed along, but, in the neighbourhood of cavity 19, the " front " edge of the blade is forced downwards by a cam 16 and compresses minced meat into the cavity. The pressing means comprises a disc 41 mounted in the second **container** 70 and a pressing member 22 biased into contact with disc 41 by spring 25 and forced out of contact by cam 26 acting on rod 24 on which the pressing member is mounted. The disc 41 is mounted on vertically movable rod 40 and can be raised by cam 38 and pin 37 for ejection of the pressed steak. When the disc 41 is in the raised position the steak is swept from it and into a shoot 74 by a pivoted arm 34 which carries a pinion at its lower end; said pinion engaging an arcuate rack on the end of a lever which is reciprocated by **slider** 30 of cam 29. The disc 41 and surrounding **container** 70 can be moved from the position shown to a position beneath the cavity 19 where a steak is received, by the action of arm 43 which is rigidly connected to pinion 45 and oscillated by cam **slider** 46. When the disc 41 is not under the cavity 19, a **plate** 76 is swung thereunder to close the base of the cavity and prevent loss of meat. The protective sheets 73 are stacked and maintained at a constant level by return spring and are picked up by valves 60, 61 connected by pipe 59 and flexible tube 69 to a source of vacuum. The arm 59 can reciprocate about a horizontal axis by the action of cam 65, rod 64, rack 63 and pinion 62 and the assembly can rotate about a

vertical axis from the stack to the disc 41 by the action of cam **slider** 56 and pinion 54. A cam 68 controls a valve 67 in the vacuum line so that the sheets are picked up and deposited at the correct times and places. The operating sequence is as follows. Minced meat in **container** 2 is forced by the blades into the cavity 19 and is partially pressed therein. At the same time a cellophane **sheet** is picked up from the **container** and placed on disc 41. The disc 41 and **container** 70 are moved under cavity 19 and the next adjacent blade forces meat from the cavity into the **container** defined by the disc 41 and **container** 70. The thickness of the steak can be varied by raising or lowering the disc in the cavity by displacement by screwing of sleeve 71. Disc 51 is returned to its original position, the cavity being closed by **plate** 76 and another cellophane **sheet** is placed on the meat. Disc 22 is lowered into the cavity and presses the meat and after this disc has been raised the disc 41 is raised to the level of the top of **container** 70 and arm 35 is actuated to eject the steak into the shoot 74.

PN - [GB1299992](#) A 19721213
PR - US19690813586 19690404
AP - GB19700015688 19700402
DT - **
CCI - [G03B17/265](#)
PA - POLAROID CORP [US]
TI - MOTION PICTURE FILM CASSETTE-PROCESSOR SYSTEM
AB - 1299992 Self-processing cassettes POLAROID CORP 2 April 1970 [4 April 1969] 15688/70 Headings G2A and G2E Processing liquid is applied to a strip of exposed photographic film by passing the film across an opening 106 in a **dispenser** 86. The opening can be covered or uncovered by a flexible blind 130 which has an opening 142 therein, and which can slide so that opening 142 is in alignment with opening 106, in which case the liquid in the **dispenser** can pass through both openings to reach the film, or so that opening 142 is out of alignment with opening 106, in which case the latter is blocked off. The thickness of the blind 130 determines the thickness of the liquid coating applied to the film. The processing arrangement forms part of the cassette 10 shown generally in Fig.1, the film 20 being driven initially from a supply reel 16 to a take-up reel 18 by way of idlers 22, 24, 26, 28, and 30, and passing through an exposure station at a gate 32. Behind gate 32 is a recess 46 in which is mounted a prismatic reflecting element 48, see also Fig. 2 (not shown) having a pair of parallel bearing surfaces (56,58) on which the moving film is supported. The **dispenser** 86 is



formed as a chamber communicating with a rupturable pod (76), Fig.3 (not shown) containing a supply of processing liquid. The opening 106 in the **dispenser** wall is surrounded by an outwardly projecting frame 108, see also Fig.8 (not shown). The **slider** blind 132 is a thin **sheet** of stainless steel or a polymeric material, and is attached at one end to a spring 138 anchored to a fixed pin 140. The other end is attached to a tang 118 forming part of an actuator member 110 which can slide in grooved tracks 112, 114 in the **dispenser**. The actuator has a leaf-spring 116 which bears against the inner cassette wall, and so keeps the actuator seated firmly in the tracks 112, 114. As the actuator slides to the right, as seen in Fig. 4, the **slider** blind 130 is drawn with it, against the spring 138, until the Fig. 4 position is reached. In this position the opening 142 in the blind is aligned with the opening 106 in the **dispenser**, so that this is "open". When the actuator 110 is moved to the left, the **slider** blind can also move to the left under the action of spring 138, until the position of Fig.5 (not shown) is reached. In this position the blind opening 142 has moved away from the opening 106, so that the latter is now closed by the remainder of the blind. In operation, the cassette 10 is mounted in a camera, and the film exposed by running it through the exposure gate 32, so that, initially wound on reel 16, it ends wound on reel 18. During this time, the opening in **dispenser** 86 remains closed.

It is now removed from the camera, and inserted in a processor-projector unit 178, Fig. 6, a protector **plate** covering the rupturable pod being first removed. A retractable roller (189), Fig. 7 (not shown) actuated by a knob 193 is brought forward, so that as the cassette enters the unit 178 the roller engages the pod (76), and forces the liquid out of it into the **dispenser** 86. Actuation of another knob 202 causes a pin 156 to engage in a hole 154 in the actuator member 110 and draw it to the left, into the Fig. 4 position, so that the **dispenser** is now "open". The exposed film 20 is now driven back from reel 18 to reel 16. As it passes the **dispenser** opening 106 a retractable support **plate** 172 moves forward to hold the film against the **dispenser**, from which it draws processing liquid so as to form a uniform coating along its entire length. The thickness of this layer is determined by the thickness of the blind, see Fig.8 (not shown). Any foreign particles on the surface of the film are removed by a cleaning pad 152 attached to the blind 130 just before the opening 142. When the whole of the processed film is once more wound on reel 16, the knob 202 is actuated again so as to retract the **plate** 172 from the film, and to allow the actuator member 110 and blind 130 to be drawn once more by spring 138 so that the **dispenser** is once again in the "closed" position. The film is now driven once again from reel 16 to reel 18. This time the station 32 acts as a projector gate. A light source is switched

on, and the image on the film projected, via mirrors 220, 222, 224 on to a viewing screen 226.

17/23 © EPODOC / EPO

PN - [GB860440](#) A 19610208

PR - FRX860440 19560425

AP - GB19570012897 19570423

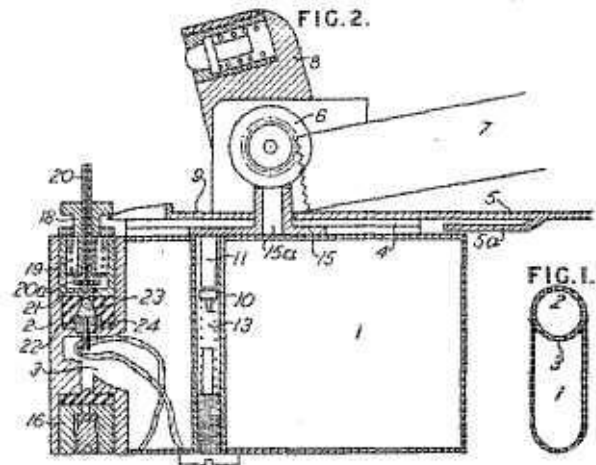
DT - *

CCI - [F23Q2/162](#)

PA - MARCEL JANODET

TI - Improvements in liquefied gas fuel lighters

AB - 860,440. Liquefied gaseous filled lighters. JANODET, M. April 23, 1957 [April 25, 1956], No. 12897/57. Class 75 (3). In a liquefied gaseous fuel lighter a liquefied gaseous fuel **container** 1 is formed from a single piece of **sheet** material and has an opening at one end closed by brazing and soldering the open sides or edges to a tubular portion 2 along lines extending in an axial direction and on diametrically opposite sides of the tubular portion 2. The broad side walls of the **container** 1 are extended upwardly and form a slide way 4 for attachment of the **container** 1 to a **slider** 5a provided on a **plate** 5 supporting the friction wheel 6, a friction wheel actuating lever 7, a snuffer **cap** 8 and a gas valve control lever 9. When the **container** 1 is mounted on the **plate** 5 a second **slider** 15 previously mounted in the slide-way 4 on the top of the **container** 1, is pushed along the slide-way 4 to align a duct 15a therein with a flint tube 10 so that the flint 11 can be pushed into engagement with the friction wheel 6 by a spring 13. The lower end of the



tube 2 is provided with a refuelling valve 16. The upper end of the tube 2 is provided with a piston 18 operated by the gas valve control lever 9 against a spring 19 to lift a disc 20a carried by a burner 20, off a gas outlet 21. Disposed before the gas outlet 21 is a rubber block 22 in which is received a cellular polythene cone 23. The cone 23 is placed upon a tube 24 communicating with the **container** 1 through an aperture 3. Liquid gaseous fuel is fed to the tube 24 by a wick.

PN - [GB933902](#) A 19630814

PR - GB19620010822 19620321

AP - GB19620010822 19620321

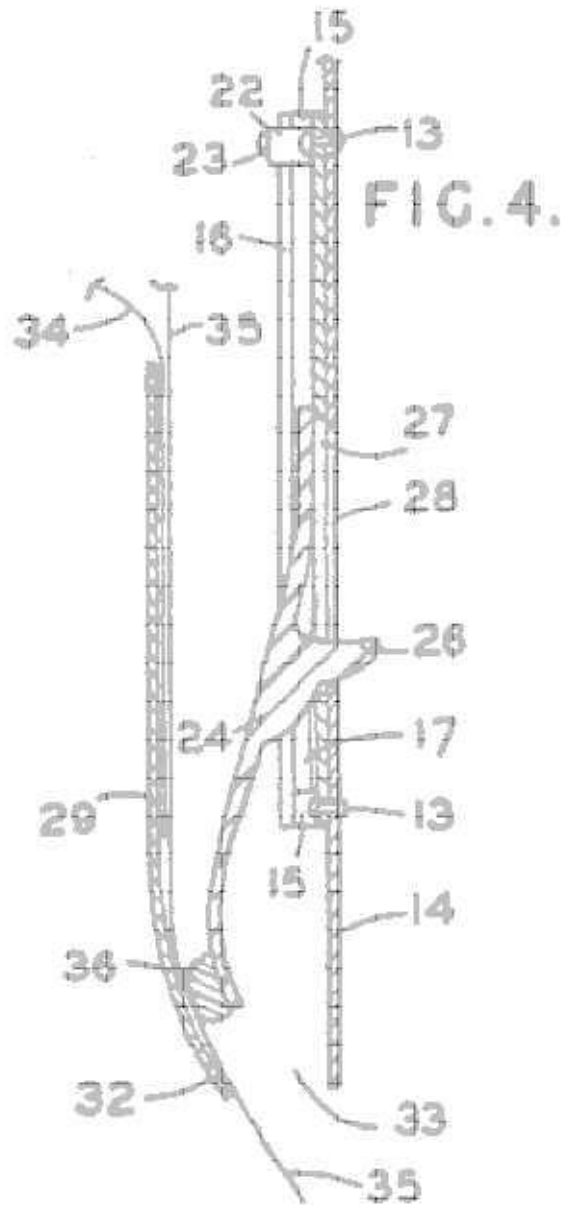
DT - *

CCI - [A47K10/44](#)

PA - SANITOR MFG CO

TI - Paper **sheet** forwarding apparatus

AB - 933,902. Feeding sheets. SANITOR MFG. CO. March 21, 1962, No. 10822/62. Class 100 (1). [Also in Group XVII]
Apparatus for dispensing sheets of paper or other material sequentially from a pack, or dispensing a length of material from a roll, comprises a baseplate which is secured to the inner surface of a vertical wall 14 of a **container** for the material, and has channelled edges to slidably receive a **plate** 17 which has limited downward movement against the action of a return spring, a flexible tongue 24 integral with or secured to the **plate** 17, a finger-piece 26 integral with or secured to the outer face of the tongue 24, a friction member 36 secured permanently or removably on the opposite side of the tongue, and a **plate** 29 forming a support for the material to be dispensed. In operation, when the finger-piece 24 is depressed and urged downwardly, the friction member 36 is first urged inwardly against a **sheet**, and is then moved downwardly with the **sheet** until the latter protrudes through a throat 33 at the bottom of the **container** sufficiently to be grasped. As shown, the friction member is used to dispense a length of towelling 35 from a roll, and the



appropriate length is then severed by tearing it along the lower edge of the wall 44; when the towelling 35 is all dispensed, that 34 from another roll is then dispensed. The **sheet** material may comprise a pack of separate sheets which are stapled together through tear tabs, and secured to a backing suspended from pegs &c. within the cabinet. In a modification, the flexible tongue comprises an upper section secured to the **slider** 17, and a lower section hinged thereto.

19/23 © EPODOC / EPO

PN - [GB685715](#) A 19530107

PR - GB19500010706
19500501; GBX1124004
19500501

AP - GB19500010706 19500501

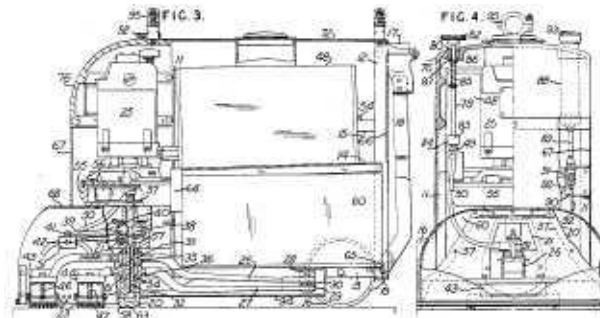
DT - *

CCI - [A47L11/4083](#) ; [A47L11/30](#) ;
[A47L11/307](#) ; [A47L11/40](#) ;
[A47L11/4038](#) ; [A47L11/4058](#) ;
[A47L11/4069](#) ; [A47L11/4072](#)

PA - FREDERICK WILLIAM PETER
TAYLOR

TI - Improvements in or relating
to **mobile** appliances for treating
floors, carpets and the like

AB - 685,715. Cleaning floors and
floor coverings. TAYLOR, F. W. P.
March 27, 1951 [May 1, 1950],
No. 10706/50. Class 138 (i).
Relates to a **mobile** appliance for
treating floors, floor coverings
and carpets and the like, of the
type comprising a frame
provided with wheels or the like
and carrying a motor or motors,
a movably mounted scrubber or
scrubbers which perform a to-
and-fro or orbital movement
over the surface to be treated, a



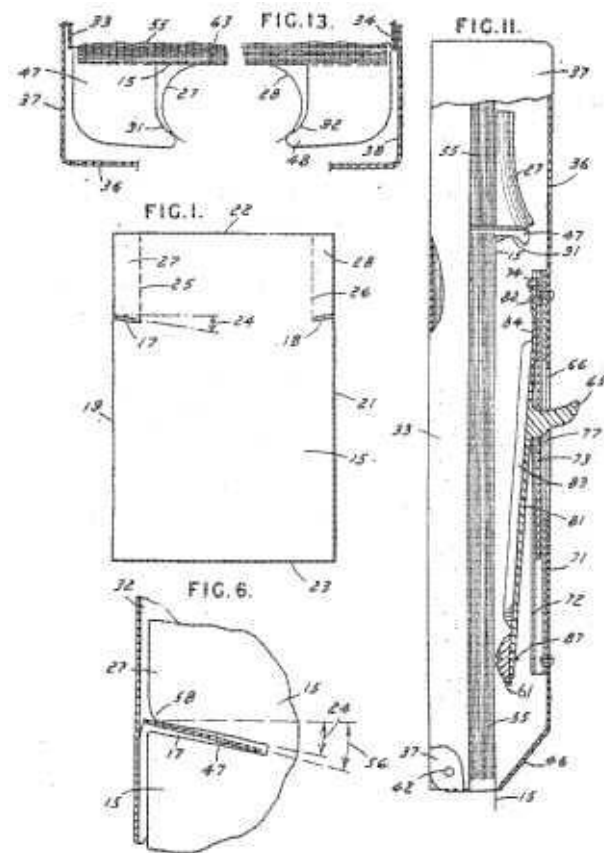
treating liquid **container**, a waste liquid **container**, and a fan for delivering, by suction, used treating liquid to the waste **container**, wherein the appliance is supported when in use partly by a transversely extending thick metal support casting which presses directly on the surface and is provided in its front face with suction channels connected to the face. The appliance, Figs. 3 and 4, comprises front and rear pairs of angle iron uprights 11, 12 and three pairs of horizontal angle iron connecting members 13, 14, 15, two propelling wheels 16, and a casing formed of **sheet** metal members 72, 67, 66, 68 and a heavy head-casting 76 which acts as a weight, secured to the frame. An electric motor 25 is mounted on top of a centrifugal fan casing 55 secured on top of the trapezoidal shaped support-casting 20 which bears on the surface to be cleaned at 63. The motor 25 drives a fan 56 a shaft 37, a speed reduction slip clutch 38, 39, 40, 41 and 42 in known manner and thus a shaft 32 connected to two eccentrics 33, 34 working in eccentric straps 35, 36 formed in scrubber arms 26, 27 carrying brushes 22, 23, of rubber with rubber bristles urged downwardly by springs 46, 47. The brushes 22, 23 are carried on box-like holders 43. 44. Openings are provided in the holders 43, 44 and in the brushes 22, 23 to allow passage of cleaning liquid. The arms 26, 27 pass through an opening 21 in the casting 20 and the shaft 32 and the eccentrics are mounted within this opening. The

arms are pivotally supported at the rear on cross links 29, 30 pivoted to cross members 28 secured to the members 13. The member 20 is formed with ducts 57 communicating with the fan chamber and with an opening 58 forming a suction inlet extending transversely of the machine immediately behind the scrubbers. The ducts 57 are covered by a **plate** 61. The cleaning liquid tank 48 is supported on members 14 and secured in its forward position by pivoted lugs 54 on the members 15. This tank has a cock 49 connectible to a pipe 50 which supplies a bifurcated distributor 51 to lead liquid to the brushes. The cock 49 is controlled by a rod 79 having a knob 82. A slotted adaptor 83 on the lower end of the rod is urged into engagement with a turnkey 84 by a spring 85. The adaptor may be disengaged from the turnkey to facilitate removal of the tank 48 and the arrangement of a pin 86 on the rod and slot 87 in a bush 80 is such that the rod 79 can only be raised after being turned to close the cock 49. The waste tank 60 is fitted with anti surge baffles. This tank is secured in place by lugs 65 and connects with the fan chamber through a rubber jointing pad 64. Mounted on a bracket 90 on the frame and passing through the top of the casting 76 is a lubricating oil pump 88 operable manually at 93 to deliver oil through a stem 89, oil meter 91 and narrow bore tubes 92 to the moving parts of the appliance. A removable drip tray 94 is provided underneath the appliance. The appliance is

propelled by the aid of a handle (not shown) of the type described in Specification 685,713 which fits into a socket 17 on a fork member 18 hinged to the frame at 19. A demountable portion of the handle (not shown) is securable in split ring brackets 95 on top of the frame, to provide a handle for lifting purposes also as disclosed in the Specification '685,713. Specifications 398,852, 399,174 and 451,704 are referred to.

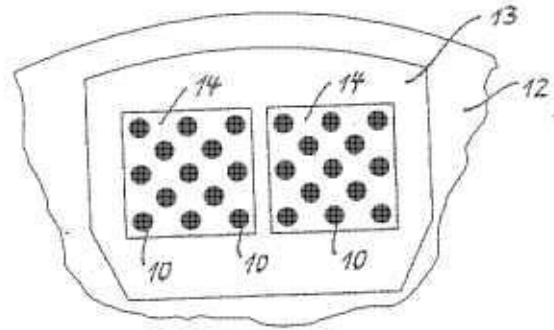
20/23 © EPODOC / EPO

- PN - [GB992849](#) A 19650526
- PR - GB19620006747 19620221
- AP - GB19620006747 19620221
- DT - *
- CCI - [A47K10/16](#) ; [A47K10/44](#)
- PA - SANITOR MFG CO
- TI - Apparatus for dispensing paper towels
- AB - 992,849. Feeding sheets.
SANITOR MFG. CO. Feb. 21, 1962, No. 6747/62. Heading B6B. A paper towel **dispenser** comprises hangers 47, 48 upon which are hung a pack of sheets 15, slots 17, 18 in each **sheet** being engaged by the inner edges of the hangers. The sheets are partially dispensed by a reciprocable system comprising a **slider** 73 attached to a resilient strip 81 and a return spring 75 (not shown). The strip 81 first bends inwardly when a knob 65 is depressed to contact the outermost **sheet** by means of a soft rubber end portion 61 and then moves downwardly, taking the **sheet** with it (see Fig. 11). During this downward movement, portions 27, 28 of the **sheet** are constrained to curl



between the hangers 47, 48 to the position shown in Fig. 13, sufficient friction existing between the hangers and portions 27, 28 to retain the **sheet** before it is withdrawn by hand. The sheets 15 are preferably as described in Specification 992,850. The slots 17, 18 are positioned nearer one end of the **sheet** than the other and their length, angular disposition and width are determined by the quality of paper used. The hangers are also angularly disposed (see Fig. 6) and preferably are inclined at a slightly greater angle to the top edge of the **dispenser** than the slots 17, 18 to aid the initial curling of the portions 27, 28. A friction **plate** of soft rubber or a suitable friction causing surface may be applied to the inside surface of the rear wall of the **dispenser** to prevent the dispensing of more than one **sheet** at a time, particularly when few sheets remain. Also, when sheets of lightweight material are used a spring arm 88 (not shown) depending from the inside of the front cover of the **dispenser** may bear upon the outermost **sheet** to prevent its falling out after partial dispensing thereof.

- PN - [DE4228912](#) A1 19940310
- PR - DE19924228912 19920828
- AP - DE19924228912 19920828
- DT - *
- CT - [SU1447681](#) A1 []
- CCI - [B28B13/0215](#)
- PA - HENKE MASCHF GMBH [DE]
- TI - Concrete mixt. filling **dispenser** to moulds of **plate** presses - has linearly sliding bottom **plate** with specified number of mould outlet openings.
- AB - The **dispenser** has a storage **container** with flat bottom **sheet** metal **plate** with a number of openings. Under the bottom **plate** is a **sheet** metal **slider** with **dispenser** chambers, corresp. in numbers to the bottom **plate** openings. The chambers are open at the top, and closable underneath by the bottom **plate**. The chamber bottoms are closed by a stationary closure **sheet** with discharge apertures, corresp. to the number of chambers. The apertures are offset w.r.t. the bottom **plate** openings, and the **slider** motion provides either top, or bottom opening. The number of the discharge openings (10) is specified.
USE/ADVANTAGE - Short distribution time for concrete mixt.



22/23 © EPODOC / EPO

- PN - [DE2656128](#) A1 19780706
- PR - DE19762656128 19761208
- AP - DE19762656128 19761208
- DT - *; Rep
- CCI - [E05B65/46](#)
- PA - HEINRICH H KLUESSENDORF FA
- TI - Lock for securing vending machine coin box - has removable **plate** with profiled edges

preventing removal and cylinder lock with bolt engaging slot in **slider**

- AB - The lock is used for securing sliding units held in cabinet enclosures against unauthorised pulling out. On one side or in front of the front **plate** of the sliding unit (2) is placed a detachable locking **plate** (10). The lock (11) of this **plate** engages with a locking bolt and laterally with sliding unit and clamps them firmly. the locking **plate** has cylinder lock whose rotating bolt is in contact with a slot within the side wall of sliding unit. The lock **plate** engages with its upper or lower edge behind a step of the end wall (8) of the floor **plate** of the vending machine **container** (3). The lock **plate** (10) is made of a **sheet** metal strip whose upper and lower ends are profiled.

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PN - [CA1308557](#) C 19921013

PR - DE19843441464 19841113

AP - CA19850495130 19851112

DT - I

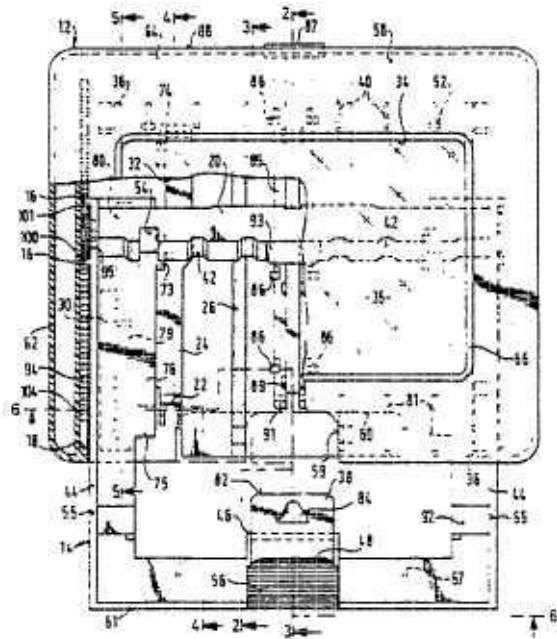
CCI - [G03B23/02](#)

CCA - [Y10S414/112](#)

PA - LICINVEST AG [CH]

TI - **CONTAINER** FOR A PILE OF SHEETS

- AB - The invention relates to a **container** for a pile of sheets essentially of like format with a housing (12), which has a viewing window (35) exposing to view the uppermost **sheet** in the pile, and with a **slider** member (14), which can be pulled out of the housing parallel to the plane of the window, having a front wall (61) essentially flush with one edge of the housing, which wall is joined by side-pieces (44) to a **slider** member rear wall (20), as well as a grip arrangement (56, 57) that fits-in in the direction of the window (35) from the front wall (61) and comprises a grip top **plate** or wall part (56) and a grip bottom **plate** or wall part (57), the outer faces of which are essentially flush with the surrounding outer faces of the housing, and having at least one housing part (627) that extends parallel to the or one of the grip plates and, when the **slider**



member (14) is in the pushed-in state, is covered by this grip **plate** (57).

[SS 25] ..v

[EPODOC: SS 25] 11 and 12 and 17

Results in EPODOC 7

[SS 26] ..li



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PN - [CN205989593U](#) U 20170301

PR - CN20162613701U 20160619

AP - CN20162613701U 20160619

DT - I

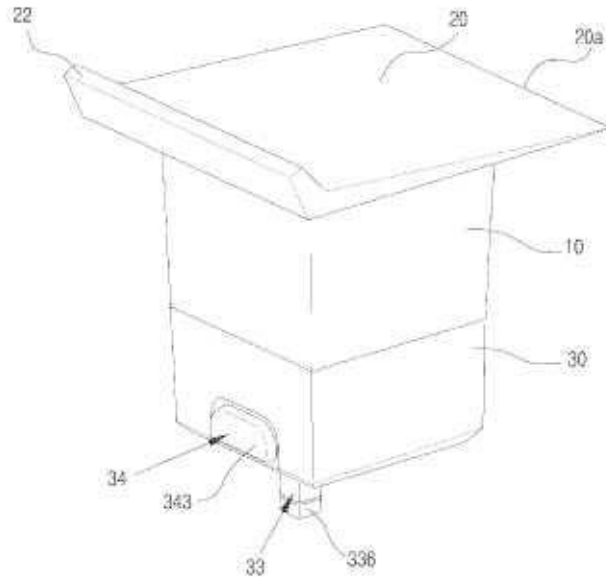
PA - XU ZHIHUA

TI - Multi -functional domestic pen **container**

AB - The utility model relates to a daily life technical field, the more specifically multi - functional domestic pen **container** that says so, place box, display screen, bookshelf, **mobile** phone containing groove, flowerpot, bellows, lamp holder, dead lever, dwang and mirror including vacuum chuck, box body, **toilet paper** box, humidifier, stationery, the pen **container** function is various, convenient to use. Vacuum chuck sets up the bottom at the box body, the **toilet paper** box sets up the inside at the box body, the humidifier sets up the left top at the box body, stationery is placed the box and is set up the positive centre at the box body, the top of box is placed in the display screen setting at stationery, the bookshelf all sets up the right top at the box body with **mobile** phone containing groove, the flowerpot sets up on the left wall of display screen, the top at the display screen is connected to the lower extreme of bellows, the upper end of bellows is connected with the lamp holder, dead lever fixed connection is on the top of display screen, the one end swing joint of dwang is on the dead lever, the other end of dwang is connected with the mirror.

2/7 © EPODOC / EPO

PN - [WO2015093715](#) A1 20150625
 PR - KR20130157193 20131217
 AP - WO2014KR07710 20140820
 DT - *; Rep
 CT - |KR| ISR (A1)
 [KR20120017715](#) A 20120229
 [A] (YOON SANG JIN [KR], et al);
 [KR20120059046](#) A 20120608
 [A] (SHIN YOUNG ROK [KR]);
 [JPH07250775](#) A 19951003
 [A] (FUJII YUSAKU);
 [KR200202930Y](#) Y1 20001115
 [A] (LEE JUNG KU [KR])
 CCI - [A47K17/02](#) ; [B05B11/3002](#) ;
 [B05B11/3015](#) ; [B05B11/3016](#)
 CCA - [A47K2010/328](#)
 PA - KIM MIN KOOK [KR]
 TI - WALL-MOUNTED SPRAYER
 HAVING SHELF
 AB - The present invention provides a
 wall-mounted sprayer
 comprising: a water **container**
 body (10), which has a tapered
 outer inclined surface (11)
 provided along the outer lower
 periphery, the upper portion of
 which is open, thereby
 containing water, and which has
 a water discharge unit (12)
 provided on the bottom surface
 thereof; a shelf body (20), which
 has a cover groove (21) recessed
 from the lower surface thereof,
 the upper portion of the
 water **container** body (10) being
 drawn into the cover groove (21)
 to cover the same, and which has
 an engaging protrusion (22)
 provided on one side of the
 upper end thereof such that an
 object, such as a **mobile** phone
 or a wallet, is placed on the
 upper surface thereof; and a
 spraying body (30), which has an
 inner inclined surface (31)
 provided along the upper inner
 periphery thereof, the inner

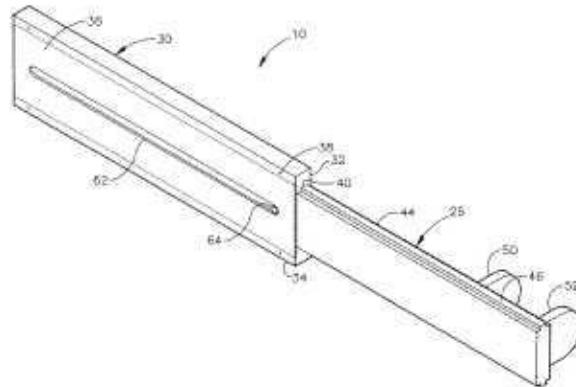


inclined surface corresponding to the outer inclined surface (11) of the water **container** body (10), which has a pressurization unit (32) protruding from the inner portion thereof so as to pressurize the water discharge unit (12) of the water **container** body (10), which has a spraying unit (33) provided so as to communicate with the inner portion thereof and spray water, which has an operation unit (34) enabling water to be sprayed through the spraying unit (33), and which stores water discharged through the water discharge unit (12) of the water **container** body (10).

According to the present invention, **toilet paper** is wetted by sprayed water and used to cleanly wipe the relevant part after defecation, thereby enabling clean washing even in a restroom without a bidet; **toilet paper** can be simply wetted and used to cleanly handle an infant's defecation, without having to carry wet tissues; usability and convenience can be improved through a simple configuration; and a **mobile** telephone, a wallet, a tablet PC, a book or the like can be placed on the shelf during defecation, and **toilet paper** wetted by water can be used to cleanly wipe the anus.

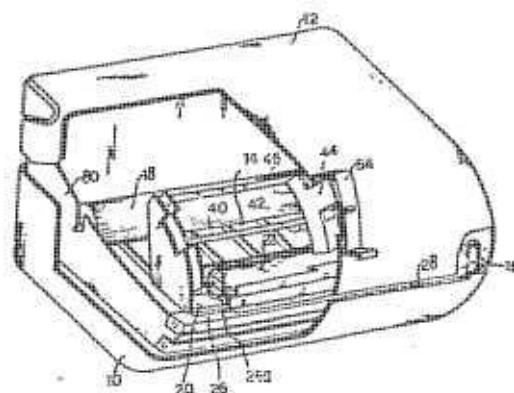
TXT - moistening **toilet paper** spray;
shelf for **mobile** phone, wall
mounting beside toilet

PN - [US5868345](#) A 19990209
 PR - US19970990659 19971215
 AP - US19970990659 19971215
 DT - *
 CT - [US1104284](#) A []; [US2574175](#) A [];
[US4200245](#) A []; [US5664740](#) A []
 CCI - [A47K10/38](#)
 TI - **Toilet paper dispenser**
 AB - A **toilet paper dispenser** includes a base assembly and a **slider** assembly. The base assembly is fixedly mounted, alongside a toilet, to a support structure such as a vanity. The **slider** assembly is adapted to slide or translate longitudinally relative to the base assembly. At one end of the **slider** assembly is located a **toilet paper** holder. In operation, the **slider** assembly can be set to a retracted position where the **toilet paper** roll holder will be stored out of way. When it is desired to use the **toilet paper dispenser**, the **slider** assembly may be extended so that someone using the **toilet paper** may obtain the paper without having to unnecessarily twist or turn.



4/7 © EPODOC / EPO

PN - [FR2533124](#) A1 19840323
 PR - FR19820015781 19820920
 AP - FR19820015781 19820920
 DT - *; Rep
 CT - || STSE (A1)
[US4131044](#) A 19781226
 [X] (CASSIA ANTONIO M);
[US3606125](#) A 19710920
 [A] (TUCKER COUNCIL A, et al);
[US2291047](#) A 19420728
 [A] (LEWIS HOWARD B, et al);
[US2038447](#) A 19360421
 [A] (JOSEPH REGANATO);
[FR2032988](#) A5 19701127



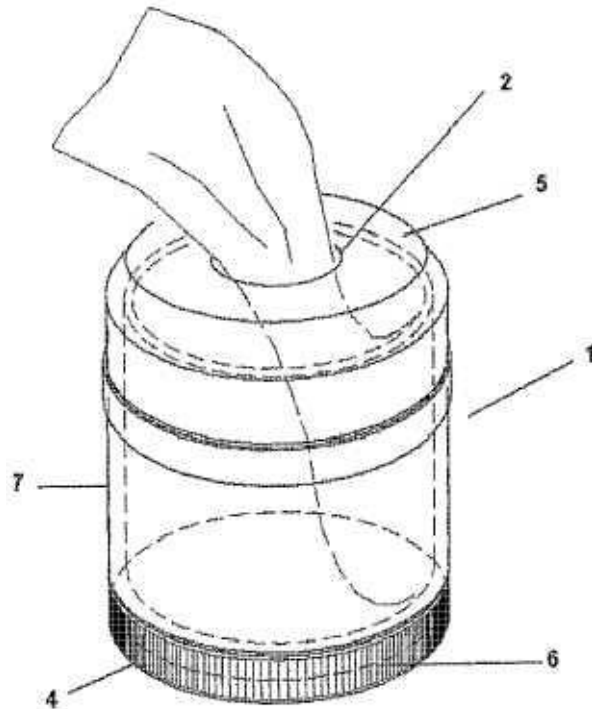
[A] (ASCHBACHER PAUL);

[DE934668](#) C 19551103

[A] (BAUMBACH FRIEDRICH [DE])

- CCI - [A47K10/3637](#)
- PA - CHEN JENG CHYUAN [TW]
- TI - **Container** for sheet material fitted with a cutting mechanism
- AB - The invention concerns a **container** for a roll of sheet material, fitted with a cutting mechanism. The **container** comprises a device for adjusting length and a mechanism for driving the said device in such a way that the roll of sheet material, for example **toilet paper**, a sheet for forming plastic bags or other rolled material, may be reeled off to a given length and may also be cut by the said device for adjusting length which acts as a cutting device, its **mobile** end being used to cause the advance of a small length of sheet under the action of the drive mechanism in order to facilitate the reeling off during the subsequent use. <IMAGE>

PN - [WO2006089986](#) A1 20060831
 PR - ES20050000439U 20050225
 AP - WO2006ES00052 20060207
 DT - *
 CT - [WO9533401](#) A1
 [X]; [US2004251292](#) A1 [Y];
[DE2818757](#) A1
 [X]; [US2003116582](#) A1 [X];
[ES2048000T](#) T3 [X]; [EP0818400](#)
 A1 [X]
 CCI - [A47K10/3818](#)
 PA - HERNANDEZ GALINDO JUAN
 CARLOS [ES]
 TI - **MOBILE TOILET PAPER DISPENSER**
 AB - The invention relates to a
 portable **container** for storing
 and dispensing toilet roll. The
 invention is characterised in
 that it comprises: (i) a central
 hollow element which houses a
 roll of **toilet paper**; (ii) an upper
 element which is equipped with
 a hole through which the paper
 can be extracted and a cover
 which is positioned thereon such
 that the paper-extraction hole
 can be closed whenever
 necessary; and (iii) a lower base
 which is provided with an
 external groove in order to
 facilitate the removal thereof,
 whereby said lower base
 is **mobile** and can be removed
 with the application of pressure
 or by means of screwing in order
 for a paper roll to be inserted
 into the **container**.



6/7 © EPODOC / EPO
 PN - [DE202007008346U](#) U1 20070816
 PR - DE20072008346U 20070614
 AP - DE20072008346U 20070614
 DT - *; Rep
 CCI - [A47K10/3818](#)
 PA - MAYER MARION [DE]

- TI - **Mobile dispenser** for dry **toilet paper**, has cylindrical body opened at flat side, and withdrawal opening is provided in center of cylinder cap
- AB - The **dispenser** encloses a usual roll of dry **toilet paper**. A withdrawal opening is provided at a side of the **dispenser**. A cylindrical body is opened at a flat side. A withdrawal opening is provided in the center of the cylinder cap. The paper roll is unwound from inside towards outside.

7/7 © EPODOC / EPO

PN - [DE102007036903](#) A1 20080828

PR - DE20071036903 20070806

AP - DE20071036903 20070806

DT - *; Rep

CT - || STSE (A1)
[DE10325175](#) A1 20040812 [] (NORDENIA DEUTSCHLAND GRONAU [DE]);
[WO2005051490](#) A2 20050609 [] (3M INNOVATIVE PROPERTIES CO [US]);
[US2003168501](#) A1 20030911 [] (HENGAMI DAVID TODJAR [US])

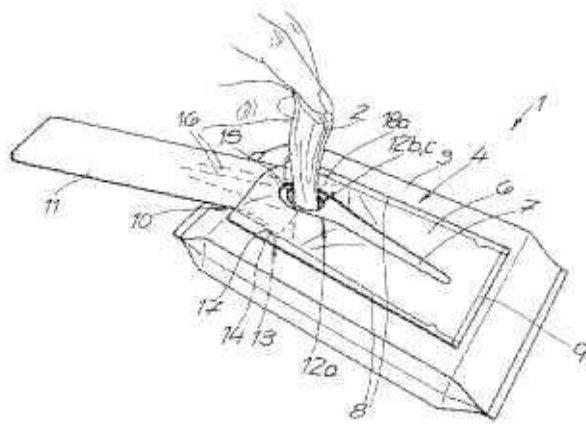
CCI - [B65D75/58](#) ; [B65D75/5827](#) ;
[B65D83/0805](#)

CCA - [B65D2575/586](#)

PA - NORDENIA TECHNOLOGIES GMBH [DE]

TI - Closing system for flexible packing **container** of e.g. damp **toilet paper**, has case whose width is reduced in area covered by enlargement during opening of **slider**, where **slider** is bulged when it is in enlargement at narrow portion of case

AB - The system (4) has upper and lower foils (6, 7) with respective openings (12a) and connected with each other in sections. A case (10) for a closing **slider** (11) is formed at an unconnected surface, where the **slider** is movable between opening and closing positions. A section guided in the case has an enlargement (13), where a width of the case is reduced in an area



covered by the enlargement during the opening movement of the **slider**, and the case width is smaller than the **slider** width at the enlargement. The **slider** is bulged when the **slider** is in the enlargement at a narrow portion of the case. An independent claim is also included for a method for manufacturing a closing system for a packing **container**.

[SS 26] ..v

[EPODOC: SS 26]