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(54) **Portable easel**

Transportfähige Staffelei

Chevalet transportable

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Description

[0001] This invention relates to a portable easel and is more particularly directed to such an easel which may be easily handled, and collapsed for convenient storage and transportation, but which is also sturdy and able to stand up to heavy use and is very durable.

[0002] Prior art documents US 3,195,849 and US 4,042,203 each disclose a portable easel according to the pre-characterising portion of the appended claims. Each of said portable easels comprises a base pedestal portion telescopically engaged with a display portion upon which display materials may be removably secured. The telescopic engagement of the base and display portions is such that both easels may be moved between extended and collapsed configurations. In order to move each easel between these configurations, interlocking means for securing said portions in a selected position and leg means mounted on the base portion must be independently manipulated. In each case, the interlocking means generates a friction force between the base and display portions so as to secure said portions together. This interlocking means is operated by a user acting on either a spring biased stopper or a wing bolt. The leg means of each easel is foldably mounted on the base pedestal portion and is hingedly rotated away from said portion so as to provide a stable base for the easel when in an extended position.

[0003] Although the friction type of interlocking means used in the aforementioned prior art is adequate for light use, said interlocking means does not provide an easel with a sturdy and durable frame capable of withstanding heavy use.

[0004] A third prior art easel is disclosed in US 2,680,932. This easel is described as incorporating interlocking means of the friction type discussed above. As an alternative, said easel is also described as incorporating interlocking means employing a ratchet system. Although this alternative may be more robust than a friction system, the ratchet mechanism is an unduly complex option which can be awkward to use and may suffer from wear.

[0005] A first aspect of the present invention provides a portable easel comprising a base pedestal portion having leg means pivotally mounted on and foldable toward and away from said base pedestal portion for securing said base pedestal portion upright on a surface; a display portion telescopically engaged with said base pedestal portion and having means for removably securing thereon display materials; said portions being movable relative to one another into extended and collapsed positions; said portions having cooperating interlocking means for securing said portions in one of a plurality of selected positions when said leg means are pivoted and folded away from said base pedestal portion; characterised in that said interlocking means has an aperture through said pedestal base portion and notches aligned with said aperture in said display portion, and

articulating means for moving a part of said leg means through said aperture and into a corresponding notch to secure said portions in selected position.

[0006] A second aspect of the present invention provides a portable easel comprising a base pedestal portion having a face defining track means for receiving a display portion telescoped therein; a display portion having a flat surface for receiving indicia thereon and a surface remote from said flat surface interlocked with and telescopically movable on said base pedestal track means; said portions being telescopically movable relative to one another into extended and collapsed positions; cooperating interlocking means for securing said portions in one of a plurality of selected positions; characterised in that said easel further comprises ramp and bar means restricting movement of said display portion relative to said base pedestal portion during movement of said portions in one direction but which do not interfere with movement in an opposite direction.

[0007] A third aspect of the present invention provides a portable easel comprising: a base pedestal portion having leg means pivotally mounted on and foldable toward and away from said base pedestal portion for securing said base pedestal portion upright on a surface; a display portion telescopically engaged with said base pedestal portion and having means for removably securing thereon display materials; said portions being movable relative to one another into extended and collapsed positions; cooperating interlocking means for securing said portions in one of a plurality of selected positions characterised in that said base portion has a groove for receiving said leg means nested within the peripheral plane of said base portion when said leg means are folded against said base portion; said leg means when extended having means for holding said base and display portions positioned in said one of the plurality of selected positions.

[0008] Further features may be provided as defined in the appended dependent claims. Preferably, an easel embodying the present invention may be blow molded from plastic materials, such as polyethylene plastic, which resists scratches and dents. The easel embodying the present invention comprises a pedestal base portion over which a display portion is slidably telescoped and which may be arranged in selected positions. Each portion is preferably blow-molded into a unitary piece having integral front and rear walls and reinforcing ribs and spacers molding the walls in spaced relation to one another.

[0009] This novel easel has built-in leg means for holding the unit upright which may be used to set up the easel into a secured lockable selected position. The device preferably has built into it means for use and storage of writing and display materials, such as markers, tape and the like, and also means for holding standard paper tablets, easel pads, flipcharts and the similar displays, which may be used without fuss.

[0010] Construction of the preferred embodiment of

easel provides a light weight and strong unit, which is easy to handle and has long life, and folds up into a self-contained unit that is lightweight, balanced and portable. The preferred easel stacks and stores easily, and like devices have interlocking members which provide for easy storage, transport and use. The preferred easel may be used on a floor or table, and is fully adjustable for that purpose.

[0011] The preferred easel comprises of a novel base portion and a novel display portion, each portion comprised of integral reinforced spaced apart walls, one portion adapted for being slideably telescoped into the other portion. This arrangement provides a sturdy but collapsible easel which is simple and quick and efficient to set up and includes novel means for locking the easel in upright position. The preferred easel has integral compartments for containing easel accessories which may be closed and used for storage and transport of these utensils when not in use. The preferred easel includes guide and ramp means to facilitate easy telescoping and a stand-off structure to prevent unintended flexing of the easel sections. Grasping means and carrying means are provided at its center of gravity when collapsed for convenient set up and transporting of the same.

[0012] Multiple easels of the preferred embodiment may be conveniently nested for storage and transport, one interlocked with the other.

[0013] The invention will be better understood from the following description of a preferred embodiment thereof, given by way of example only, reference being had to the accompanying drawings wherein:

Figure 1 is a perspective view of an easel embodying the present invention, showing the easel in extended position ready for use.

Figure 2 is a perspective view of the easel shown in Figure 1, except it has been collapsed for use on a table or for storage or transportation (when the legs are folded against the pedestal base portion).

Figure 3 is an enlarged front elevational view of the easel embodying the invention shown in Figure 1.

Figure 4 is a rear elevational view of the easel shown in Figure 3, with parts of the upper easel section being broken away.

Figure 5 is a side elevational view of the easel shown in Figure 3, with the legs extended.

Figure 6 is a sectional view of the pedestal base portion of the easel taken on line 6 - 6 of Figure 4.

Figure 7 is another sectional view of the pedestal base portion of the easel taken on line 7 - 7 of Figure 4.

Figure 8a is a sectional view of the easel taken on line 8a - 8a of Figure 4.

Figure 8b is a sectional view of the easel taken on line 8b - 8b of Figure 4, said line being a continuation of line 8a - 8a (without the pad clamp).

Figure 9 is a top plan view of the easel shown in

Figure 4 (without the pad clamp).

Figure 10 is a sectional view of the easel taken on line 10 - 10 of Figure 4.

Figure 11 is a view of the easel taken on line 11 - 11 of Figure 4, taken partially in section.

Figure 12 is a detail sectional view of the leg locking structure for the easel when collapsed for table top use as shown in Figure 2.

Figure 13 is a detail sectional view of the leg locking structure similar to Figure 12, except showing the easel in extended position of Figure 5, taken on line 13-13 thereof.

Figure 14 is a fractional detail sectional view of the upper part of the display portion of the easel, showing the pad clamp and associated spring clip structure.

Figure 15 is a detail schematic view of the toggle and leg movement relative to the pedestal base portion of the easel.

Description of the Preferred Embodiment

[0014] With reference to Figures 1 - 5 of the accompanying drawings, the easel 10 has a pedestal base portion 11 and a display portion 12, upon which a pad of paper P may be affixed or indicia placed thereon for display to a group of people in a conference or meeting situation.

[0015] Preferably, the pedestal base portion 11 has spaced apart feet 13 and upright members 14, which may be bridged by the upper portion thereof defining compartments 15 for holding markers, tape and the like. Telescoped into the pedestal base portion 11, is the display portion 12, and this pedestal base portion has unitary front and rear walls, 16 and 17, respectively (see Figs. 6 and 7). Legs 18 are arranged and foldable into corresponding grooves 19 on the rear wall 17 of the pedestal base portion 11.

[0016] A flat display board 20 is on one face of the display portion 12, and is intended to back up a writing pad P or other display. A spring clamp assembly 21 is secured to an upper edge of the display board 20 so that a pad P may be clipped by the spring clamp assembly to the display board 20 for securing the pad P thereon in a way for pages of the pad to be flipped over the top 22 of the board. Lifting handles 23 may be molded into side edges 24 of the display portion 12 for easy and balanced lifting and collapsing of the display portion relative to the pedestal base portion 11.

[0017] The legs 18 are preferably tubular and U-shaped and have a bottom member 25 bridging upright side members 26 which are pivotally secured to the rear wall 17 of the pedestal base portion 11 by means of upper toggle bracket assemblies 27 through short toggle links 27a, preferably screw mounted to the rear wall and leg. The side leg members 26 also are secured to the rear wall 17 by lower toggle bracket assemblies 28, preferably also screw mounted to the rear wall and leg,

through long toggle links 29, which define arcs for moving the legs 18 toward and away from the pedestal base portion 11 during set up and storage of the easel 10, as shown schematically in Figure 15, which depict the movement of the legs from position 1 to position 2, and vice versa, in the direction of the respective arrows, as the leg ends 51 are articulated into and out of the apertures 52, in a manner and for a purpose hereafter discussed. Preferably, the leg side members 26 have an integral cross member 30 at the connection of the toggle links 29 to provide rigidity of the structure when set up.

[0018] The rear wall 17 of the pedestal base has several recess and protrusions. Recesses 31 provide handles for carrying the easel 10 selectively from either side of the easel when collapsed. Recess 32 provides a handle for carrying the easel by the leg cross member 30 in an upright position when collapsed. Recess 33 provides rigidity to the pedestal base portion 11 and includes kiss-offs or stress absorbing wells 33a for absorbing strain during collapse and extension of the display portion relative to the base portion. Bottom Recess 34 may be used for grasping the legs 18 and pulling them out of the leg recesses during set up. Leg cross member protrusions 35 act as guides for properly seating the leg cross member 30 when the legs are closed against the pedestal base portion in the leg recesses 19. A rounded protrusion 36 having an inverted V shaped cross section is arranged across the lower side of the rear wall and reinforces the wall 17.

[0019] With reference to the display portion 12, its rear wall 37 is unitary with the front wall forming the display board 20, the rear wall has a plurality of ribs 38 and stress absorbing wells 39, which stiffen and space apart the front display board 20 and rear wall 37 and absorb stress during extension and collapse of the base and display portions 11 and 12, respectively. On each side of and between the ribs 38, are a plurality of ramps 40 which when the easel is assembled preferably have a steeper taper in the direction of the feet 13 and a relatively more shallow taper in the direction of the top of the display board, and below each of these ramps 40 is a stress absorbing well 41.

[0020] A ledge 43 may be provided on the bottom edge of the display board 20 which can act as a lip for balancing a marker when the easel 10 is in use, and this ledge 43 also interlocks with rounded protrusion 36 on the rear wall 17 of the pedestal base portion 11 when collapsed; and the upper face of the board top 22 has a recess 42 which corresponds to a protrusion 43a on the rear wall 17 of the pedestal base portion 11. Thus, like easels can be stacked interlocked and be retained in a stack while being transported.

[0021] The spring clamp assembly 21 is preferably screw mounted to the front wall of the display board 20 and may have posts 44 having free ends over which drilled holes H in the pad are installed, and this assembly preferably comprises an inverted L shaped clamp plate 45 arranged over the face of the board 20 for holding

the upper edge of the pad P and a backer strip 46 which has a spring 47 urging the plate 45 over the pad toward the strip 46.

[0022] As shown in Figure 9 - 11, the rear wall 37 of the display portion 12 is formed with spaced apart vertically arranged tracks 48 and ridges 49, and the pedestal base portion 11 has inside edge member 50 formed corresponding to and interlocking with the tracks 48 and ridges 49 for sliding the display portion 12 upwardly or downwardly along the inside edge members 50 relative to the display portion 12 for elevating or lowering the display portion.

[0023] With reference to Figures 12 and 13, means is provided for securing the display portion 12 relative to the pedestal base portion 11, either in extended floor mounted position as shown in Figure 1 or in telescoped table mounted position shown in Figure 2, respectively. In either position, the legs 18 are articulated, by the toggle links 27a and 29 held by upper and lower brackets 27 and 28, respectively, when folded away from the pedestal base portion 11 (see Figure 15), in position as shown in Figures 12 or 13, so that the ends 51 of the leg side members 26 obliquely extend through an aperture 52 through the pedestal base portion 11 and come to rest against an angularly tapered wall 53 of the aperture clearing upper wall 54.

[0024] The rear wall 37 of the display portion 11 has formed in it two sets of wedge shaped notches, one set arranged near the top 55 and the other set arranged near the bottom 56 of the display portion rear wall 37, each vertically and horizontally aligned, for receiving the leg ends 51, thus locking the display portion relative to the base portion selectively in the table top position shown in Figure 12 (using the top set 55 of notches) or the floor position shown in Figure 13 (using the bottom set 56 of notches).

[0025] In addition to the ramps 40 previously described for slowing down the movement of the display portion 12 as it slides downwardly on the pedestal base portion 11, bars 57 are formed on the front wall 16 of the base portion, above the apertures 52, and corresponding bumps 58 are formed in the rear wall 37 of the display portion to restrict the movement of the display portion 12 downwardly on the base portion 11 and to help hold the portions in position once adjusted, as shown in Figures 12 and 13.

[0026] Also, when the display portion 12 is telescoped downwardly over the base pedestal portion 11 in the manner described, the compartments 15 are closed and covered by the display portion. Thus, materials stored in these compartments may be safely stored, transported and reused when the easel are needed again.

[0027] Normally, easels 10 are stored in the position shown in Figure 2, except the legs 18 are folded against the leg recess 19, laid horizontally stacked one easel upon the next easel, so that they interlock, as described, for stability. The upper easel is removed from the pile, and its display portion 12 may be extended, as shown

in Figure 1, if used on a floor, or telescoped, if used on a table, as shown in Figure 2, with the legs folded away from the pedestal base 11 and in interlocked position with the display portion 12, as shown in Figures 12 and 13, respectively. A change from floor mount to table mount, or vice versa, may be easily accomplished, by slightly folding the leg ends 51 to clear the notches 55 or 56, moving the board 20 upwardly or downwardly, and re-locking the leg ends into the corresponding notches. [0028] The present invention is not limited to the specific embodiment described above. Alternative arrangements and suitable materials will be apparent to a reader skilled in the art.

Claims

1. A portable easel (10) comprising: a base pedestal portion (11) having leg means (18) pivotally mounted on and foldable toward and away from said base pedestal portion (11) for securing said base pedestal portion (11) upright on a surface; a display portion (12) telescopically engaged with said base pedestal portion (11) and having means (21) for removably securing thereon display materials; said portions (11,12) being movable relative to one another into extended and collapsed positions; said portions (11,12) having cooperating interlocking means for securing said portions in one of a plurality of selected positions when said leg means are pivoted and folded away from said base pedestal portion; **characterised in that** said interlocking means has an aperture (52) through said pedestal base portion (11) and notches (55,56) aligned with said aperture (52) in said display portion (12), and articulating means for moving a part (51) of said leg means (18) through said aperture (52) and into a corresponding notch to secure said portions (11,12) in selected position.
2. The easel recited in claim 1, wherein at least one of said portions (11,12) is hollow, said hollow portion preferably having rib (33,38) and well means (33a, 39) to reinforce said portion, and wherein said portions are each preferably formed of unitary blow molded plastics material.
3. The easel recited in claim 1 or claim 2, wherein said portions (11,12) have members (36,42,43,43a) adapted to interlock like easels, one stacked upon another easel for transportation and storage, said interlock stacking means preferably comprising a plurality of protrusions (43,43a) and recesses (36,42) on the faces of said portions (11,12).
4. The easel recited in any preceding claim, wherein said leg means (18) comprise a U-shaped leg member pivotally secured and nested in a groove (19) in said base pedestal portion (11), said pivotal securement preferably comprising toggle bracket assemblies (27,28) joining said leg member to said base pedestal portion.
5. The easel recited in claim 4, wherein said toggle bracket assemblies (27,28) define articulating arcs for the movement of said interlocking means.
6. The easel recited in any preceding claim, wherein one or more of said base pedestal portion (11) and said leg means (18) has handle means (31,32), preferably integral handle means, which may be grasped when said easel (10) is in collapsed condition.
7. The easel recited in any preceding claim, wherein said display portion (12) has a flat board surface (20) on a side opposed to the leg means (18) on said base pedestal portion (11), the edges (24) of said display portion (12) intermediate said board surface (20) preferably having opposed gripping handles (23) for telescoping said portions (11,12) into extended and collapsed condition.
8. The easel recited in claim 7, wherein one edge of said board surface (20) has a clamp assembly (21) for securing display materials to said surface (20), said clamp assembly (21) preferably having a post element (44) for securing a drilled pad to said board surface (20) or a clip member arranged over a backer strip (46) sandwiched over said board surface (20) for holding said display material in position, a spring member (47) preferably being interspaced between said clip member and backer strip for urging said clip member against said board surface (20).
9. The easel recited in any preceding claim, wherein said pedestal base portion (11) has integral compartments (15) which are open when said portions (11,12) are extended and closed when said portions (11,12) are in collapsed position.
10. A portable easel (10) comprising: a base pedestal portion (11) having a face defining track means (50) for receiving a display portion (12) telescoped therein; a display portion (12) having a flat surface (20) for receiving indicia thereon and a surface remote from said flat surface (20) interlocked with and telescopically movable on said base pedestal track means (50); said portions (11,12) being telescopically movable relative to one another into extended and collapsed positions; cooperating interlocking means for securing said portions (11,12) in one of a plurality of selected positions; **characterised in that** said easel (10) further comprises ramp and bar means (40,57) restricting movement of said display

portion (12) relative to said base pedestal portion (11) during movement of said portions (11, 12) in one direction but which do not interfere with movement in an opposite direction.

11. The easel recited in claim 10 further comprising leg means (18) for holding said easel (10) upright in selected extended or collapsed position, wherein said leg means (18) are associated with said interlocking means and removably secure said portions (11,12) together when in selected position.
12. A portable easel (10) comprising: a base pedestal portion (11) having leg means (18) pivotally mounted on and foldable toward and away from said base pedestal portion (11) for securing said base pedestal portion (11) upright on a surface; a display portion (12) telescopically engaged with said base pedestal portion (11) and having means (21) for removably securing thereon display materials; said portions (11,12) being movable relative to one another into extended and collapsed positions; cooperating interlocking means for securing said portions (11,12) in one of a plurality of selected positions; **characterised in that** said base portion (11) has a groove (19) for receiving said leg means (18) nested within the peripheral plane of said base portion (11) when said leg means (18) are folded against said base portion (11); said leg means (18) when extended having means for holding said base and display portions positioned in said one of the plurality of selected positions.
13. The easel recited in claim 12, wherein said leg means (18) comprise a U-shaped leg member pivotally secured and nested in said groove (19), said pivotal securement preferably comprising toggle bracket assemblies (27,28) joining said leg member to said base pedestal portion (11).
14. The easel recited in claim 13, wherein said toggle bracket assemblies (27,28) define articulating arcs for the movement of said interlocking means.

Patentansprüche

1. Tragbare Staffelei (10), die umfasst: einen unteren Ständerabschnitt (11) mit einer Beineinrichtung (18), die schwenkbar an dem unteren Ständerabschnitt (11) angebracht ist und auf ihn zu und von ihm weg geklappt werden kann, um den unteren Ständerabschnitt (11) aufrechtstehend auf einer Fläche zu fixieren; einen Anzeigeabschnitt (12), der teleskopartig mit dem unteren Ständerabschnitt (11) in Eingriff ist und eine Einrichtung (21) zum lösbaren Befestigen von Anzeigematerialien daran aufweist; wobei die Abschnitte (11, 12) zueinander

in ausgezogene und eingeschobene Positionen bewegt werden können und die Abschnitte (11, 12) zusammenwirkende Eingriffseinrichtungen aufweisen, mit denen die Abschnitte in einer Vielzahl ausgewählter Positionen fixiert werden, wenn die Beineinrichtung geschwenkt und von dem unteren Ständerabschnitt weggeklappt wird, **dadurch gekennzeichnet, dass** die Eingriffseinrichtungen eine Öffnung (52) durch den unteren Ständerabschnitt (11) hindurch sowie Einkerbungen (55, 56) aufweisen, die auf die Öffnung (52) in dem Anzeigeabschnitt (12) ausgerichtet sind, und eine Gelenkeinrichtung aufweist, mit der ein Teil (51) der Beineinrichtung (18) durch die Öffnung (52) hindurch und in eine entsprechende Einkerbung hinein bewegt wird, um die Abschnitte (11, 12) in der ausgewählten Position zu fixieren.

2. Staffelei nach Anspruch 1, wobei wenigstens einer der Abschnitte (11, 12) hohl ist und der hohle Abschnitt vorzugsweise Steg-(33, 38) und Vertiefungseinrichtungen (33a, 39) aufweist, um den Abschnitt zu verstärken, und wobei die Abschnitte jeweils vorzugsweise aus einem Teil bestehendem blasgeformtem Kunststoffmaterial bestehen.
3. Staffelei nach Anspruch 1 oder Anspruch 2, wobei die Abschnitte (11, 12) Elemente (36, 42, 43, 43a) aufweisen, die mit gleichartigen Staffeleien in Eingriff kommen, wenn sie zum Transport und zur Aufbewahrung übereinander gestapelt werden, wobei die Eingriffs-Staffeleinrichtung vorzugsweise eine Vielzahl von Vorsprüngen (43, 43a) und Vertiefungen (36, 42) an den Flächen der Abschnitte (11, 12) umfasst.
4. Staffelei nach einem der vorangehenden Ansprüche, wobei die Beineinrichtung (18) ein U-förmiges Beinelement umfasst, das schwenkbar befestigt und in einer Auskehlung (19) in dem unteren Ständerabschnitt (11) eingeschlossen ist, wobei die schwenkbare Befestigung vorzugsweise Gelenkhalterungsbaugruppen (27, 28) umfasst, die das Beinelement mit dem unteren Ständerabschnitt verbinden.
5. Staffelei nach Anspruch 4, wobei die Gelenkhalterungsbaugruppen (27, 28) Gelenkbögen für die Bewegung der Eingriffseinrichtung bilden.
6. Staffelei nach einem der vorangehenden Ansprüche, wobei nur der untere Ständerabschnitt (11) oder die Beineinrichtung (18) oder beide Griffeinrichtungen (31, 32), vorzugsweise integrale Griffeinrichtungen, aufweisen, die ergriffen werden können, wenn sich die Staffelei (10) in zusammengeklapptem Zustand befindet.

7. Staffelei nach einem der vorangehenden Ansprüche, wobei der Anzeigeabschnitt (12) eine plane Plattenfläche (20) an einer der Beineinrichtung (18) gegenüberliegenden Seite an dem unteren Ständerabschnitt (11) aufweist, wobei die Ränder (24) des Anzeigeabschnitts (12) zwischen der Plattenfläche (20) vorzugsweise einander gegenüberliegende Haltegriffe (23) aufweisen, mit denen die Abschnitte (11, 12) teleskopartig in den ausgezogenen und den eingeschobenen Zustand gebracht werden. 5
8. Staffelei nach Anspruch 7, wobei ein Rand der Plattenfläche (20) eine Klemmbaugruppe (21) zum Befestigen von Anzeigematerialien an der Fläche (20) aufweist, wobei die Klemmbaugruppe (21) vorzugsweise ein Bolzenelement (44) zum Befestigen einer gebohrten Unterlage an der Plattenfläche (20) oder ein Klammerelement aufweist, das über einem Verstärkungstreifen (46) angeordnet ist, der über der Plattenfläche (20) angeordnet ist, um das Anzeigematerial in Position zu halten, wobei ein Federelement (47) vorzugsweise zwischen dem Klammerelement und dem Verstärkungstreifen angeordnet ist, um das Klammerelement an die Plattenfläche (20) zu drücken. 10 15 20 25
9. Staffelei nach einem der vorangehenden Ansprüche, wobei der untere Ständerabschnitt (11) integrale Fächer (15) aufweist, die offen sind, wenn die Abschnitte (11) ausgezogen sind, und geschlossen sind, wenn die Abschnitte (11, 12) sich in eingeschobener Position befinden. 30
10. Tragbare Staffelei (10), die umfasst: einen unteren Ständerabschnitt (11) mit einer Fläche, die Bahneinrichtungen (50) zur Aufnahme eines teleskopartig darin angeordneten Anzeigeabschnitts (12) aufweist, einen Anzeigeabschnitt (12) mit einer planen Fläche (20), die Zeichen darauf aufnimmt, und einer von der planen Fläche (20) entfernten Fläche, die mit der Bahneinrichtung (50) des unteren Ständers in Eingriff ist und teleskopartig daran bewegt werden kann; wobei die Abschnitte (11, 12) teleskopartig zueinander in ausgezogene und eingeschobene Positionen bewegt werden können; zusammenwirkende Eingriffseinrichtungen, die die Abschnitte (11, 12) in einer einer Vielzahl ausgewählter Positionen fixieren, **dadurch gekennzeichnet, dass** die Staffelei (10) des Weiteren Rampen- und Stegeinrichtungen (40, 57) umfasst, die Bewegung des Anzeigeabschnitts (12) in Bezug auf den unteren Ständerabschnitt (11) während der Bewegung der Abschnitte (11, 12) in einer Richtung einschränken, die jedoch Bewegung in einer entgegengesetzten Richtung nicht behindern. 35 40 45 50 55
11. Staffelei nach Anspruch 10, die des Weiteren eine Beineinrichtung (18) umfasst, die die Staffelei (10) in einer ausgewählten ausgezogenen oder eingeschobenen Position aufrecht hält, wobei die Beineinrichtung (18) mit den Eingriffseinrichtungen verbunden ist und die Abschnitte (11, 12) lösbar zueinander fixiert, wenn sie sich in der ausgewählten Position befinden.
12. Tragbare Staffelei (10), die umfasst: einen unteren Ständerabschnitt (11) mit einer Beineinrichtung (18), die schwenkbar an dem unteren Ständerabschnitt (11) angebracht ist und auf ihn zu und von ihm weg geklappt werden kann, um den unteren Ständerabschnitt (11) aufrecht auf einer Fläche zu fixieren; einen Anzeigeabschnitt (12), der teleskopartig mit dem unteren Ständerabschnitt (11) in Eingriff ist und eine Einrichtung zum lösbar Befestigen von Anzeigematerialien daran (21) aufweist; wobei die Abschnitte (11, 12) zueinander in ausgezogene und eingeschobene Positionen bewegt werden können; zusammenwirkende Eingriffseinrichtungen, zum Fixieren der Abschnitte (11, 12) in einer einer Vielzahl ausgewählter Positionen, **dadurch gekennzeichnet, dass** der untere Abschnitt (11) eine Auskehlung (19) aufweist, die die Beineinrichtung (18) in der Umfangsebene des unteren Abschnitts (11) eingeschlossen aufnimmt, wenn die Beineinrichtung (18) an den unteren Abschnitt (11) geklappt ist, wobei die Beineinrichtung (18), wenn sie ausgezogen ist, eine Einrichtung aufweist, mit der der untere und der Anzeigeabschnitt, die in der einen der Vielzahl ausgewählter Positionen angeordnet sind, gehalten werden.
13. Staffelei nach Anspruch 12, wobei die Beineinrichtung (18) ein U-förmiges Beinelement umfasst, das schwenkbar in der Auskehlung (19) befestigt und eingeschlossen ist, wobei die Schwenkbefestigung vorzugsweise Gelenkhalterungsbaugruppen (27, 28) umfasst, die das Beinelement mit dem unteren Ständerabschnitt (11) verbinden.
14. Staffelei nach Anspruch 13, wobei die Gelenkhalterungsanordnungen (27, 28) Gelenkbögen für die Bewegung der Eingriffseinrichtungen bilden.

Revendications

1. Chevalet portable (10) comportant : une partie de piétement de base (11) ayant des moyens de patte (18) montés de façon pivotante sur et pouvant être pliés vers et à l'écart de ladite partie de piétement de base (11) afin de fixer ladite partie de piétement de base (11) verticalement sur une surface; une partie de présentation (12) engagée de manière télescopique avec ladite partie de piétement de base (11) et ayant des moyens (21) destinés à fixer de

façon démontable dessus des matières de présentation; lesdites parties (11, 12) étant mobiles l'une par rapport à l'autre dans des positions sorties et rentrées; lesdites parties (11, 12) ayant des moyens de blocage qui coopèrent afin de fixer lesdites parties dans une position parmi plusieurs positions choisies quand lesdits moyens de patte sont amenés à pivoter et pliés à l'écart de ladite partie de piétement de base; **caractérisé en ce que** lesdits moyens de blocage possèdent une ouverture (52) à travers ladite partie de piétement de base (11) et des encoches (55, 56) alignées avec ladite ouverture (52) dans ladite partie de présentation (12), et des moyens d'articulation destinés à déplacer une partie (51) desdits moyens de patte (18) à travers ladite ouverture (52) et dans une encoche correspondante afin de fixer lesdites parties (11, 12) dans la position choisie.

2. Chevalet selon la revendication 1, dans lequel au moins une desdites parties (11, 12) est creuse, ladite partie creuse ayant de préférence une nervure (33, 38) et des moyens de renforcement (33a, 39) afin de renforcer ladite partie, et dans lequel lesdites parties sont chacune de préférence formées en matière plastique unitaire moulée par soufflage.
3. Chevalet selon la revendication 1 ou la revendication 2, dans lequel lesdites parties (11, 12) possèdent des éléments (36, 42, 43, 43a) prévus pour bloquer des chevalets équivalents, empilés l'un au-dessus de l'autre pour le transport et le stockage, lesdits moyens d'empilage bloqué comportant de préférence plusieurs saillies (43, 43a) et renforcements (36, 42) sur les faces desdites parties (11, 12).
4. Chevalet selon l'une quelconque des revendications précédentes, dans lequel lesdits moyens de patte (18) comportent un élément de patte en forme de U fixé de façon pivotante et emboîté dans une rainure (19) de ladite partie de piétement de base (11), ladite fixation pivotante comportant de préférence des ensembles de support basculants (27, 28) reliant ledit élément de patte à ladite partie de piétement de base.
5. Chevalet selon la revendication 4, dans lequel lesdits ensembles de support basculants (27, 28) définissent des arcs d'articulation pour le mouvement desdits moyens de blocage.
6. Chevalet selon l'une quelconque des revendications précédentes, dans lequel un ou plusieurs desdits parties de piétement de base (11) et moyens de patte (18) possèdent des moyens de poignée (31, 32), de préférence des moyens de poignée intégrale, qui peut être saisie quand ledit chevalet (10) est

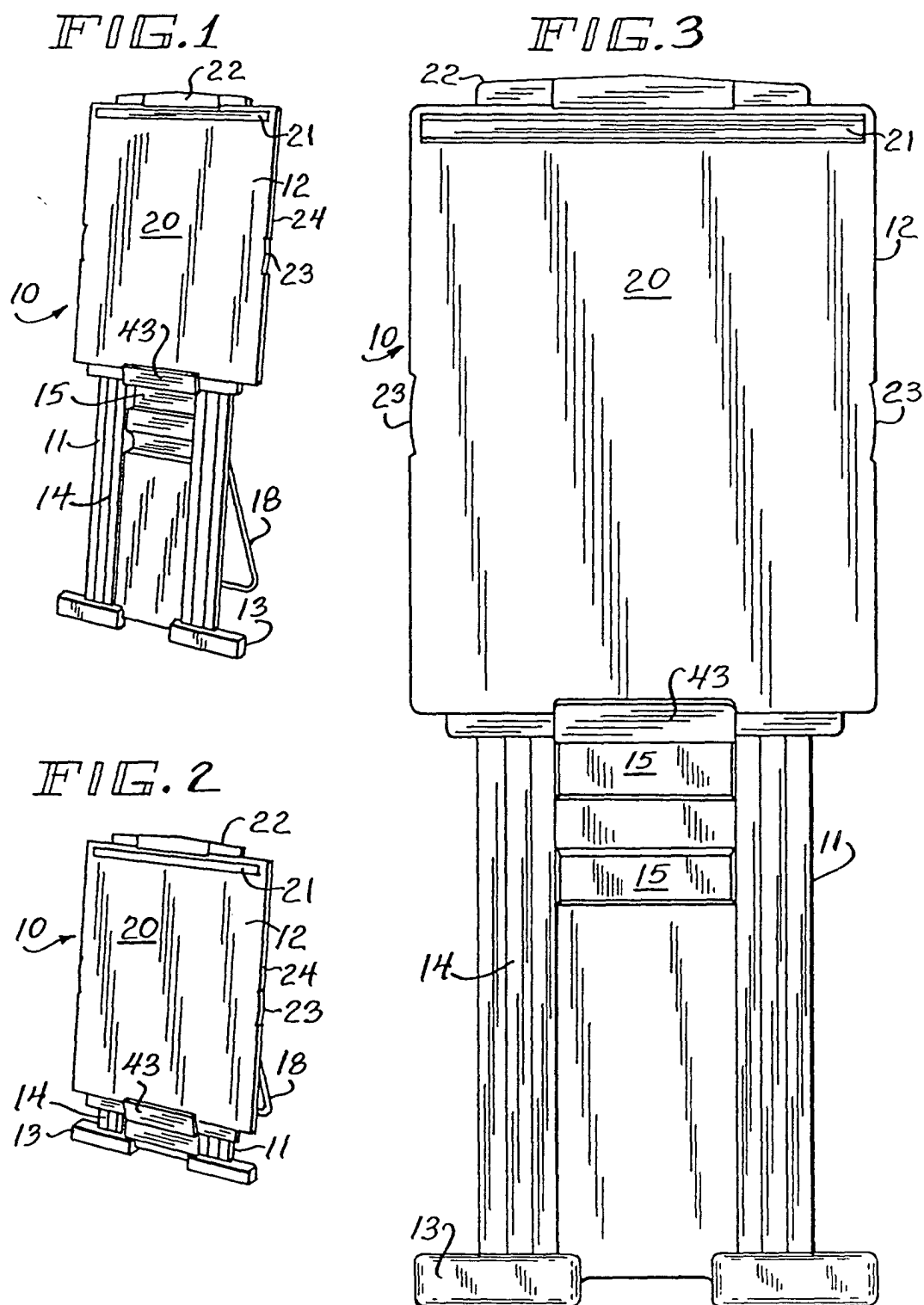
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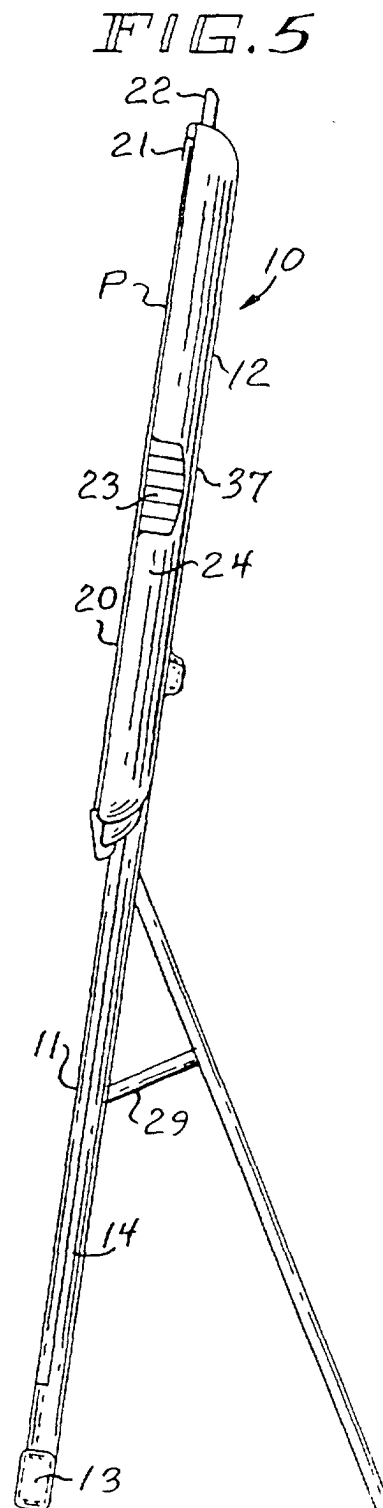
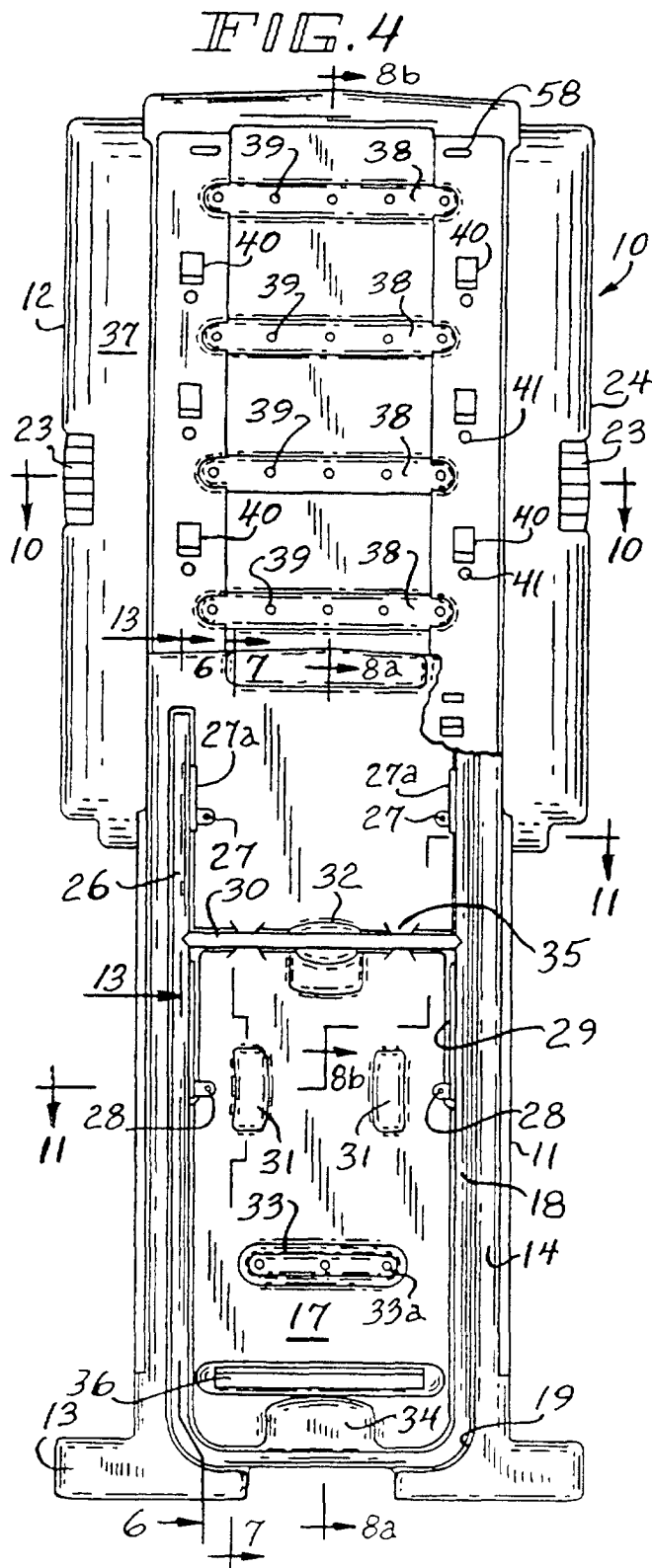
7. Chevalet selon l'une quelconque des revendications précédentes, dans lequel ladite partie de présentation (12) a une surface de tableau plate (20) sur un côté opposé aux moyens de patte (18) sur ladite partie de piétement de base (11), les bords (24) de ladite partie de présentation (12) entre ladite surface de tableau (20) ayant de préférence des poignées de saisie opposées (23) afin d'amener de manière télescopique lesdites parties (11, 12) dans l'état sorti et rentré.
8. Chevalet selon la revendication 7, dans lequel un bord de ladite surface de tableau (20) a un ensemble de pince (21) pour la fixation de matières de présentation sur ladite surface (20), ledit ensemble de pince (21) ayant de préférence un élément de fiche (44) destiné à fixer un bloc perforé sur ladite surface de tableau (20) ou un élément d'agrafe disposé au-dessus d'une bande d'appui (46) enserrée au-dessus de ladite surface de tableau (20) afin de maintenir ladite matière de présentation en position, un élément de ressort (47) étant de préférence interposé entre ledit élément d'agrafe et la bande d'appui afin de pousser ledit élément d'agrafe contre ladite surface de tableau (20).
9. Chevalet selon l'une quelconque des revendications précédentes, dans lequel ladite partie de piétement de base (11) a des compartiments intégraux (15) qui sont ouverts lorsque lesdites parties (11, 12) sont sorties et fermés lorsque lesdites parties (11, 12) sont en position rentrée.
10. Chevalet portable (10) comportant : une partie de piétement de base (11) ayant une face définissant des moyens de glissière (50) destinés à recevoir une partie de présentation (12) de manière télescopique; une partie de présentation (12) ayant une surface plate (20) destinée à recevoir des marques et une surface éloignée de ladite surface plate (20) bloquée avec et mobile de manière télescopique sur lesdits moyens de piste de piétement de base (50); lesdites parties (11, 12) étant mobiles de manière télescopique l'une par rapport à l'autre dans des positions sorties et rentrées; des moyens de blocage qui coopèrent afin de fixer lesdites parties (11, 12) dans une position parmi plusieurs positions choisies; **caractérisé en ce que** ledit chevalet (10) comporte en outre des moyens de rampe et de barre (40, 57) limitant le mouvement de ladite partie de présentation (12) par rapport à ladite partie de piétement de base (11) pendant le mouvement desdites parties (11, 12) dans une direction mais qui n'interfèrent pas avec le mouvement dans une direction opposée.

11. Chevalet selon la revendication 10, comportant en outre des moyens de patte (18) destinés à maintenir ledit chevalet (10) vertical dans une position sortie ou rentrée choisie, dans lequel lesdits moyens de patte (18) sont associés auxdits moyens de blocage et fixent de manière démontable lesdites parties (11, 12) ensemble dans la position choisie. 5
12. Chevalet portable (10) comportant : une partie de piétement de base (11) ayant des moyens de patte (18) montés de façon pivotante et pouvant être pliés vers et à l'écart de ladite partie de piétement de base (11) afin de fixer ladite partie de piétement de base (11) verticalement sur une surface; une partie de présentation (12) engagée de manière télescopique avec ladite partie de piétement de base (11) et ayant des moyens (21) destinés à fixer de façon démontable des matières de présentation; lesdites parties (11, 12) étant mobiles l'une par rapport à l'autre dans des positions sorties et rentrées; des moyens de blocage qui coopèrent destinés à fixer lesdites parties (11, 12) dans une position parmi plusieurs positions choisies; **caractérisé en ce que** ladite partie de base (11) a une rainure (19) destinée à recevoir lesdits moyens de patte (18) emboîtés dans le plan périphérique de ladite partie de base (11) quand lesdits moyens de patte (18) sont pliés contre ladite partie de base (11); lesdits moyens de patte (18) lorsqu'ils sont sortis ayant des moyens destinés à maintenir lesdites parties de base et de présentation positionnées dans ladite position parmi plusieurs positions choisies. 10 15 20 25 30
13. Chevalet selon la revendication 12, dans lequel lesdits moyens de patte (18) comportent un élément de patte en forme de U fixé et emboîté de façon pivotante dans ladite rainure (19), ladite fixation pivotante comportant de préférence des ensembles de support basculants (27, 28) reliant ledit élément de patte à ladite partie de piétement de base (11). 35 40
14. Chevalet selon la revendication 13, dans lequel lesdits ensembles de support basculants (27, 28) définissent des arcs d'articulation pour le mouvement desdits moyens de blocage. 45

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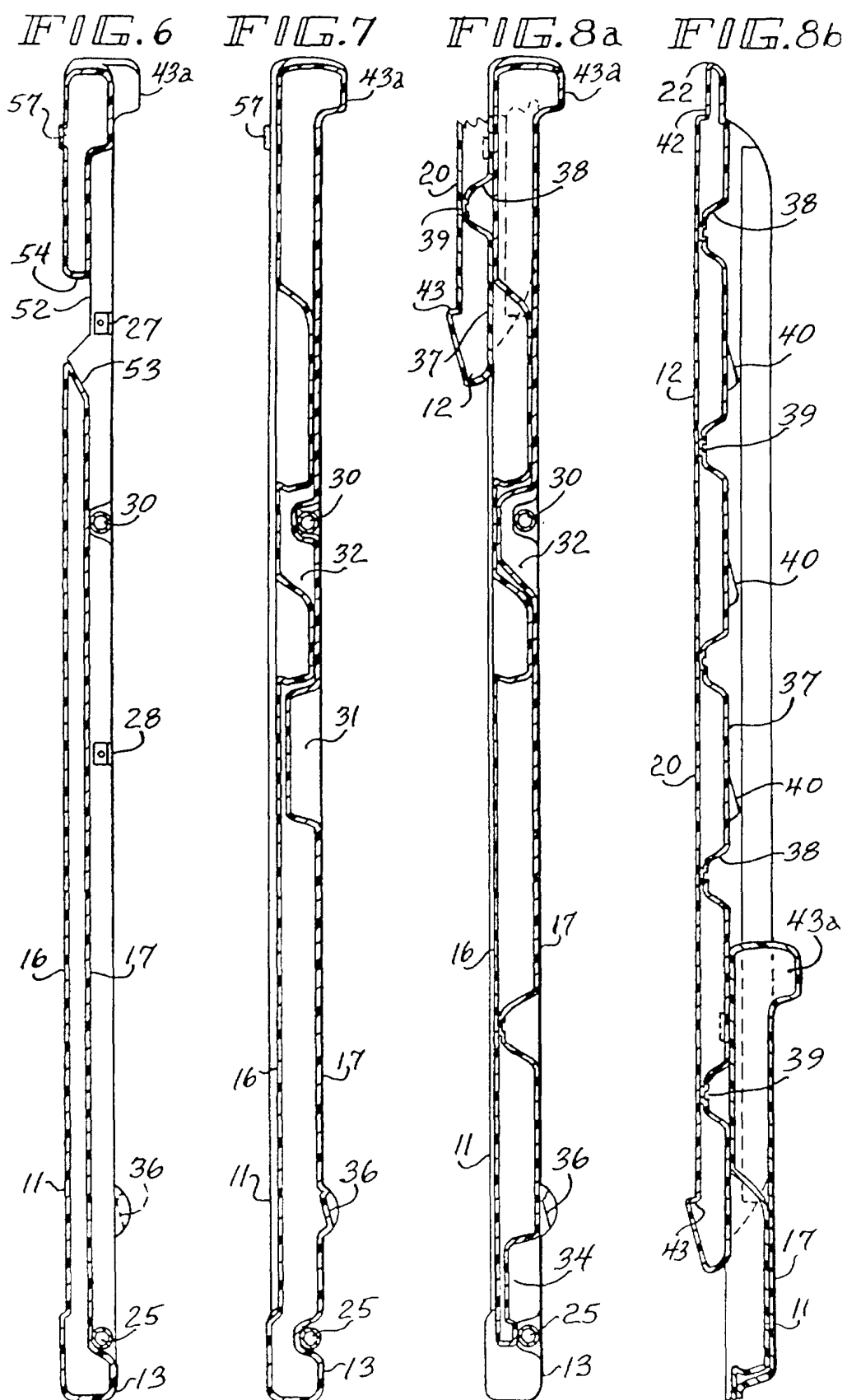


FIG. 9

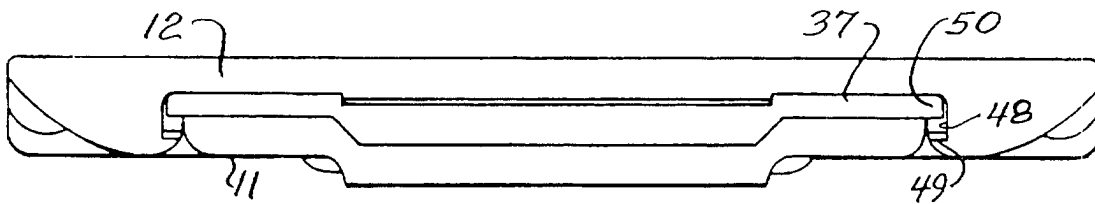


FIG. 10

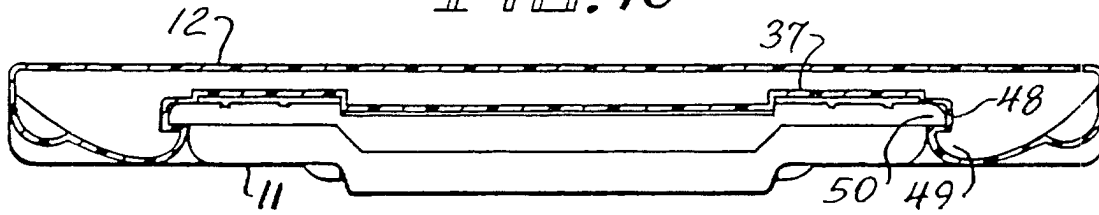
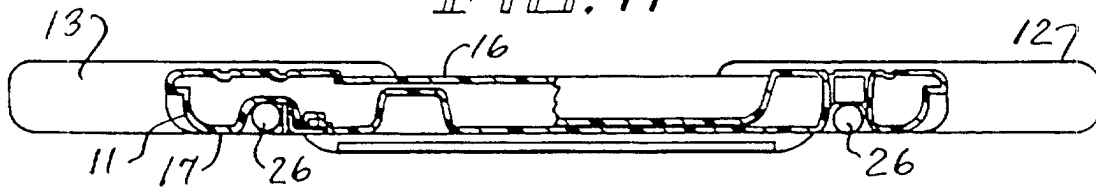


FIG. 11



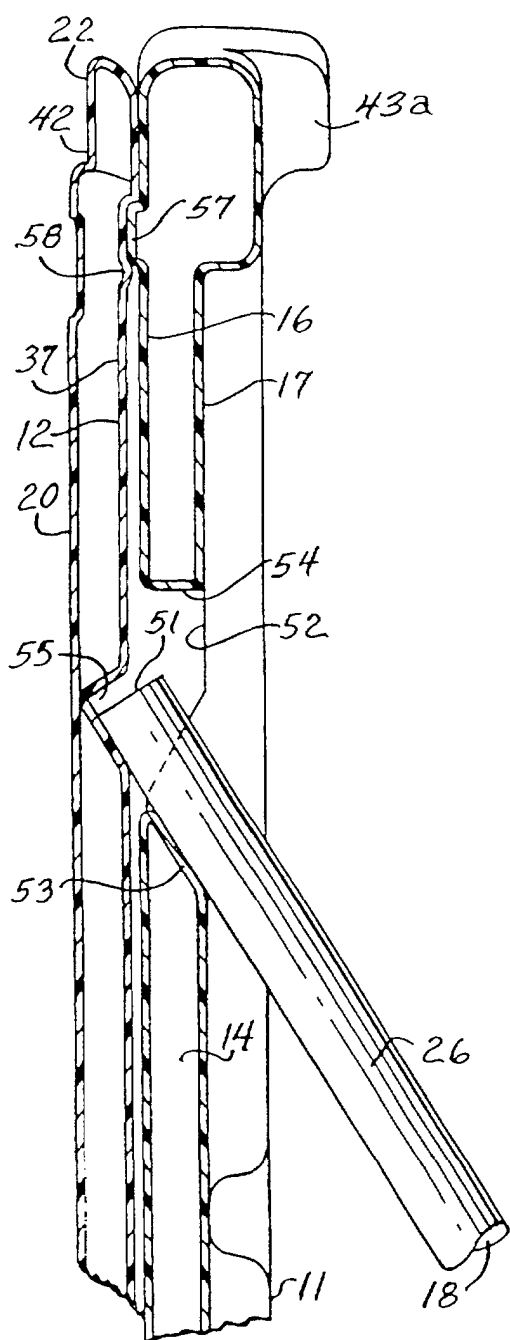


FIG. 12

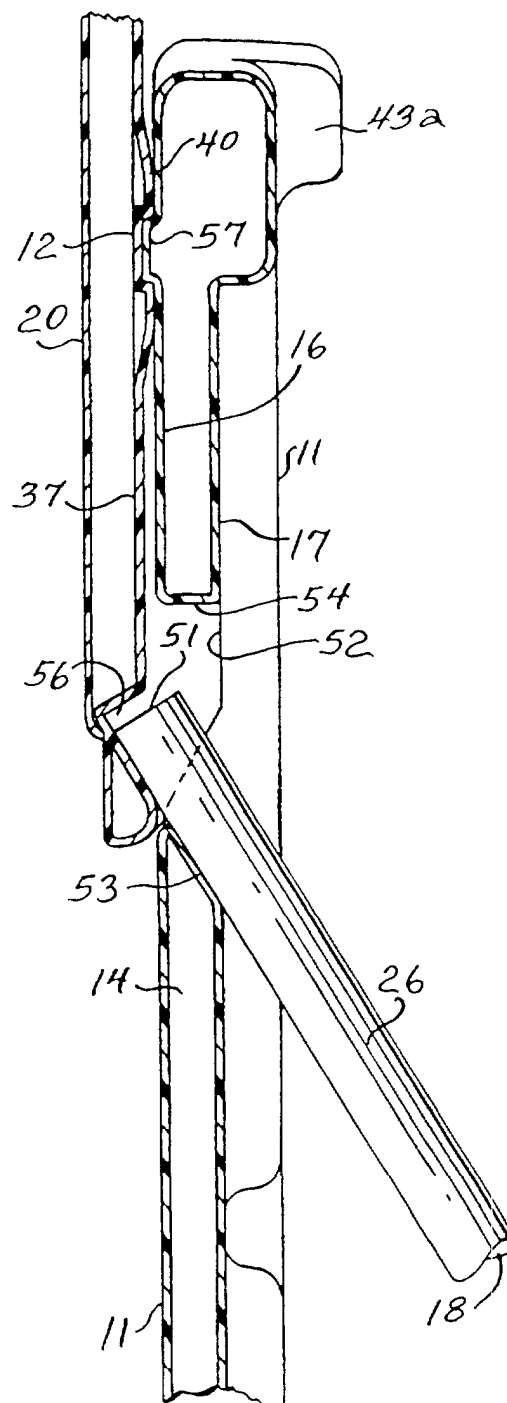


FIG. 13

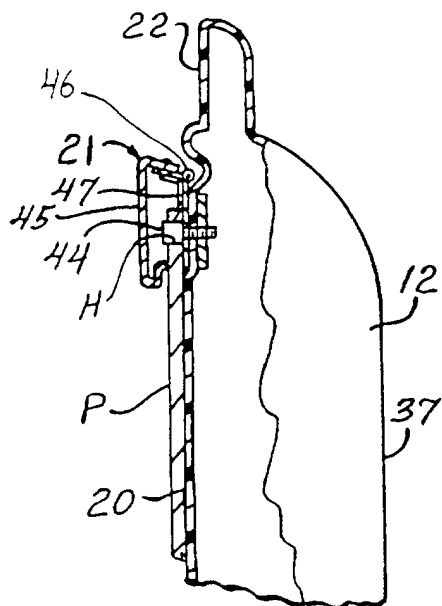


FIG. 14

FIG. 15

