



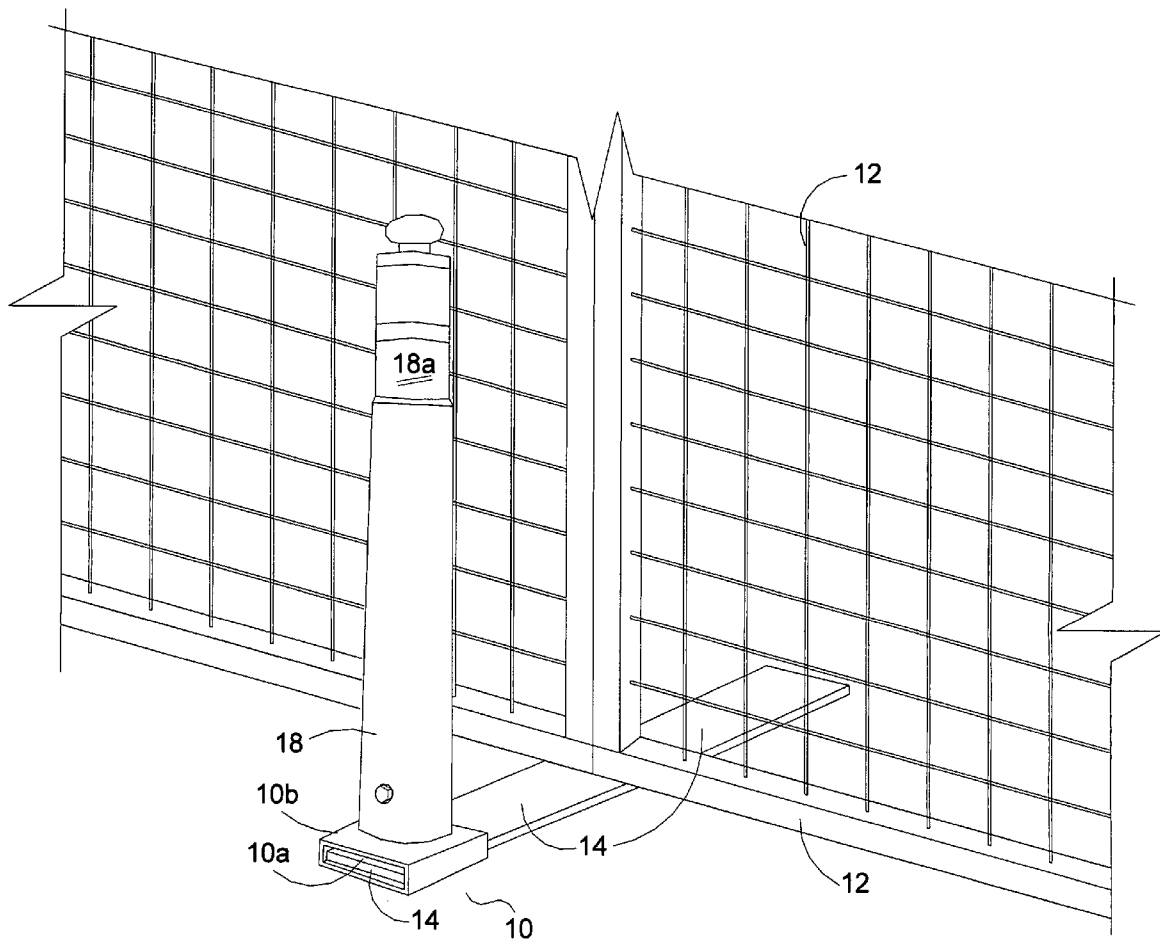
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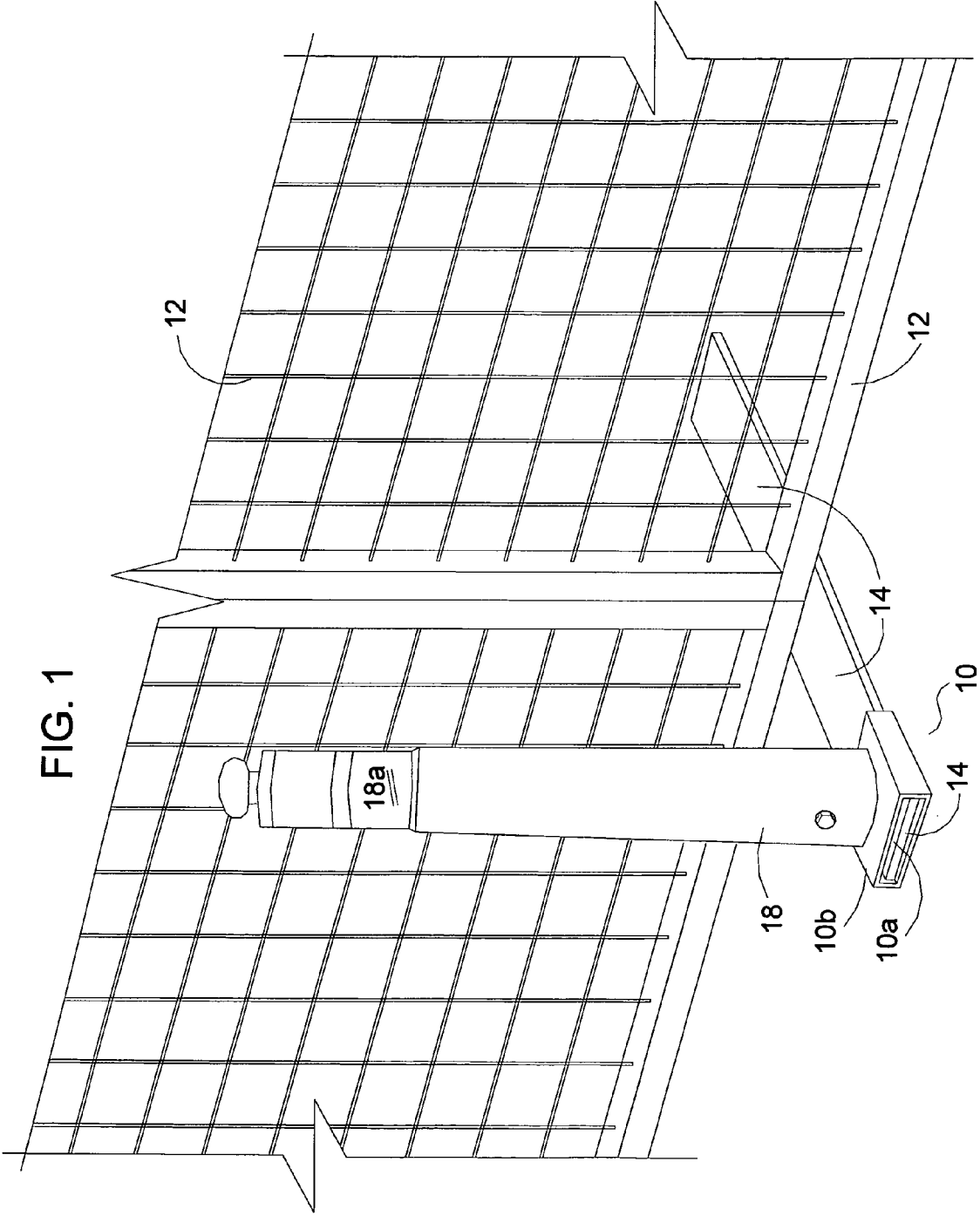
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Pasqualini(10) **Pub. No.: US 2012/0305871 A1**(43) **Pub. Date: Dec. 6, 2012**(54) **CONSTRUCTION SITE FENCE PANEL FOOT
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(52) **U.S. Cl.** **256/24**(57) **ABSTRACT**

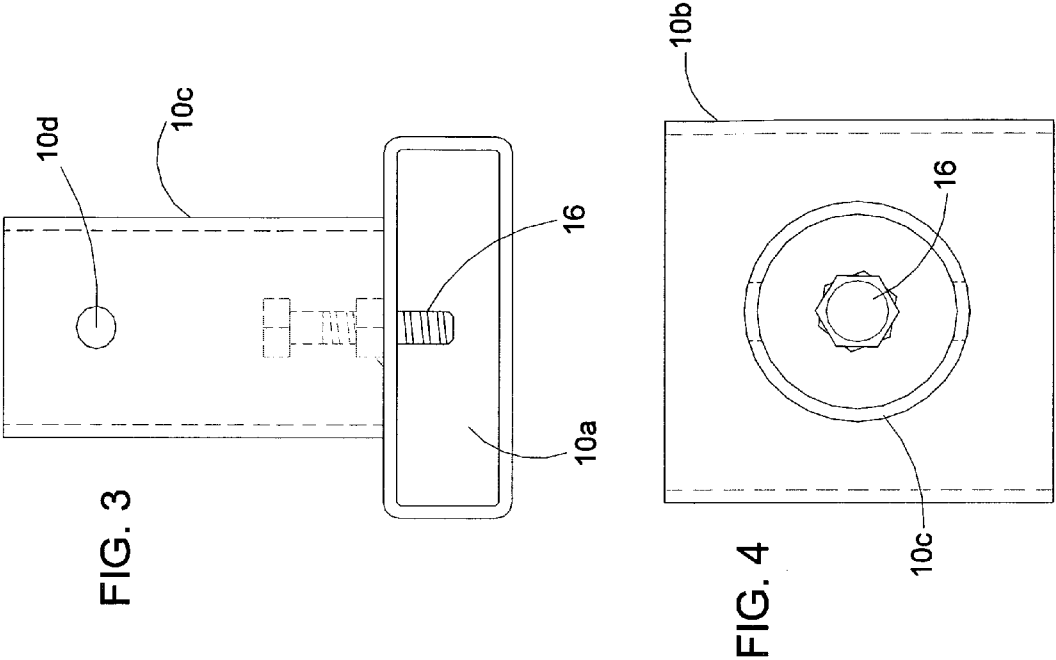
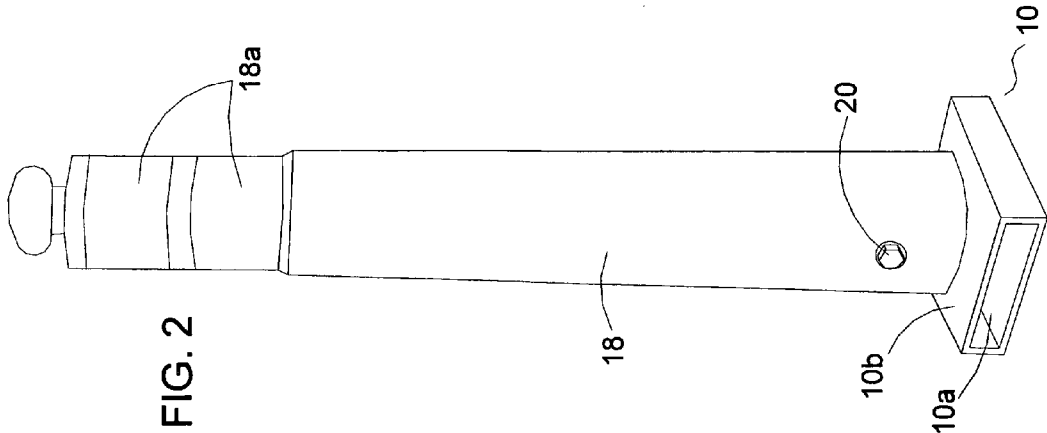
A construction site fence assembly having a foot plate attached and a foot plate cover attachment base unit for separating the fence assembly from traffic and to guide traffic. The base unit includes a pad that is tapered away from the construction site fence panel foot, creating a gentle sloping ramp. The sloping ramp may also include a delineator mount to attach a traffic delineator thereon top of the sloping ramp.

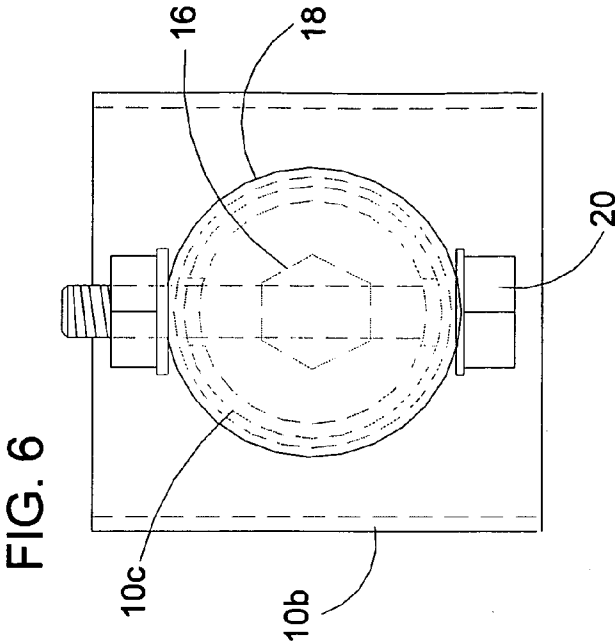
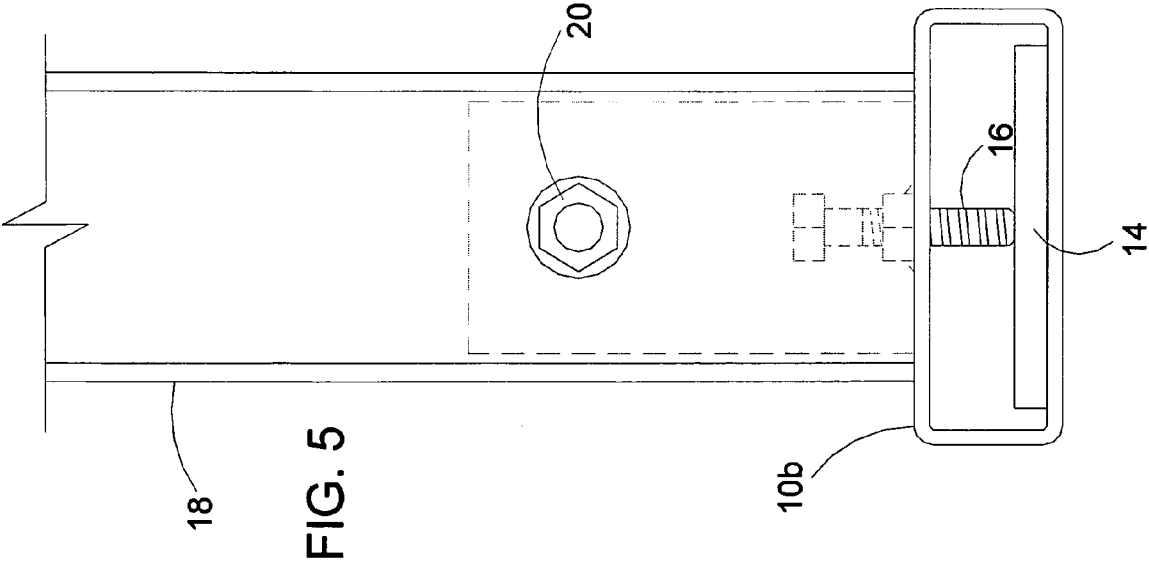
Related U.S. Application Data

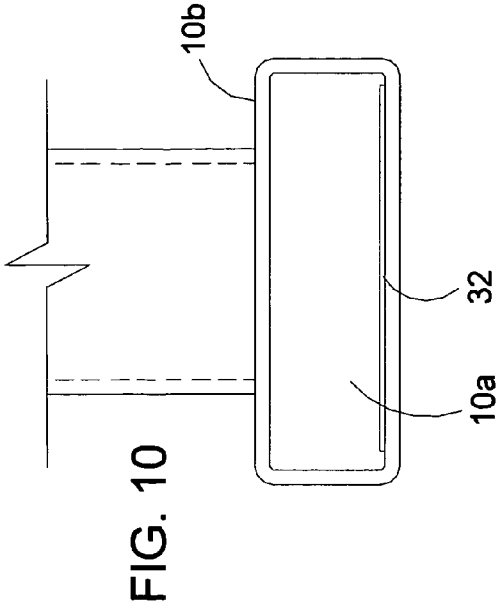
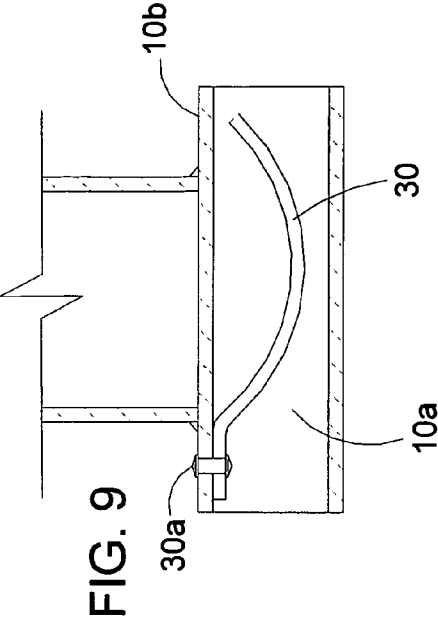
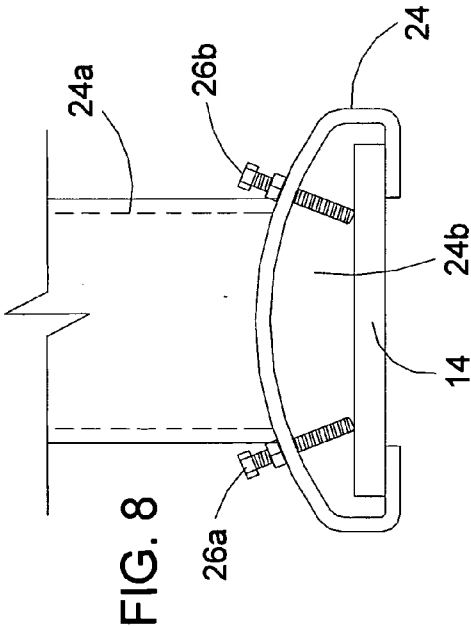
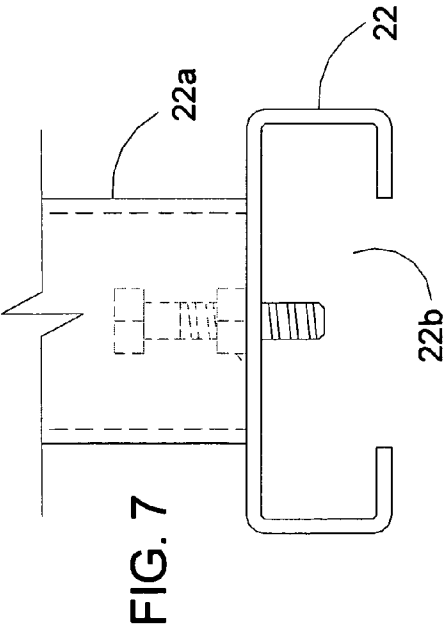
(62) Division of application No. 12/380,547, filed on Jun. 1, 2009, now Pat. No. 8,246,012.

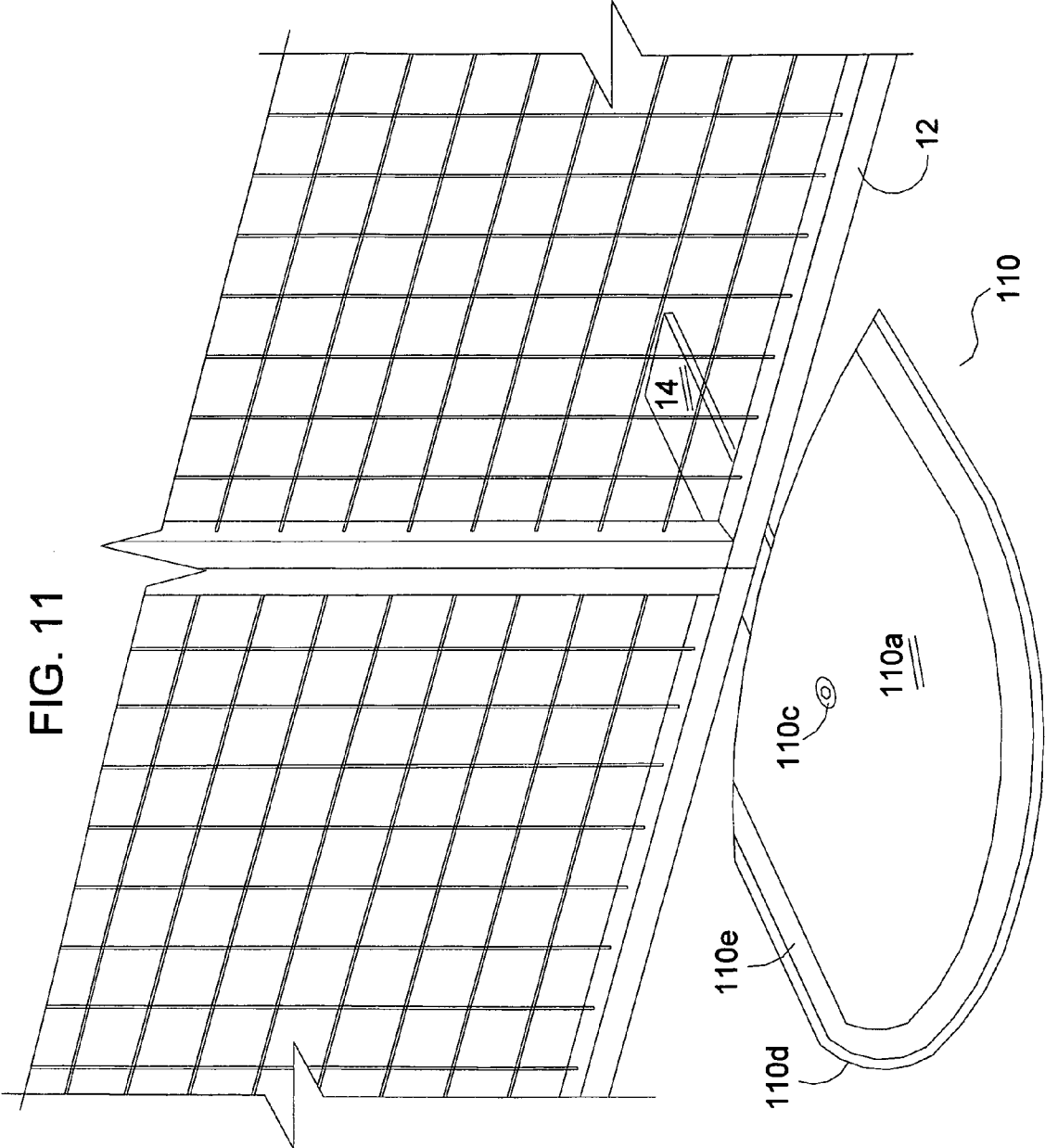


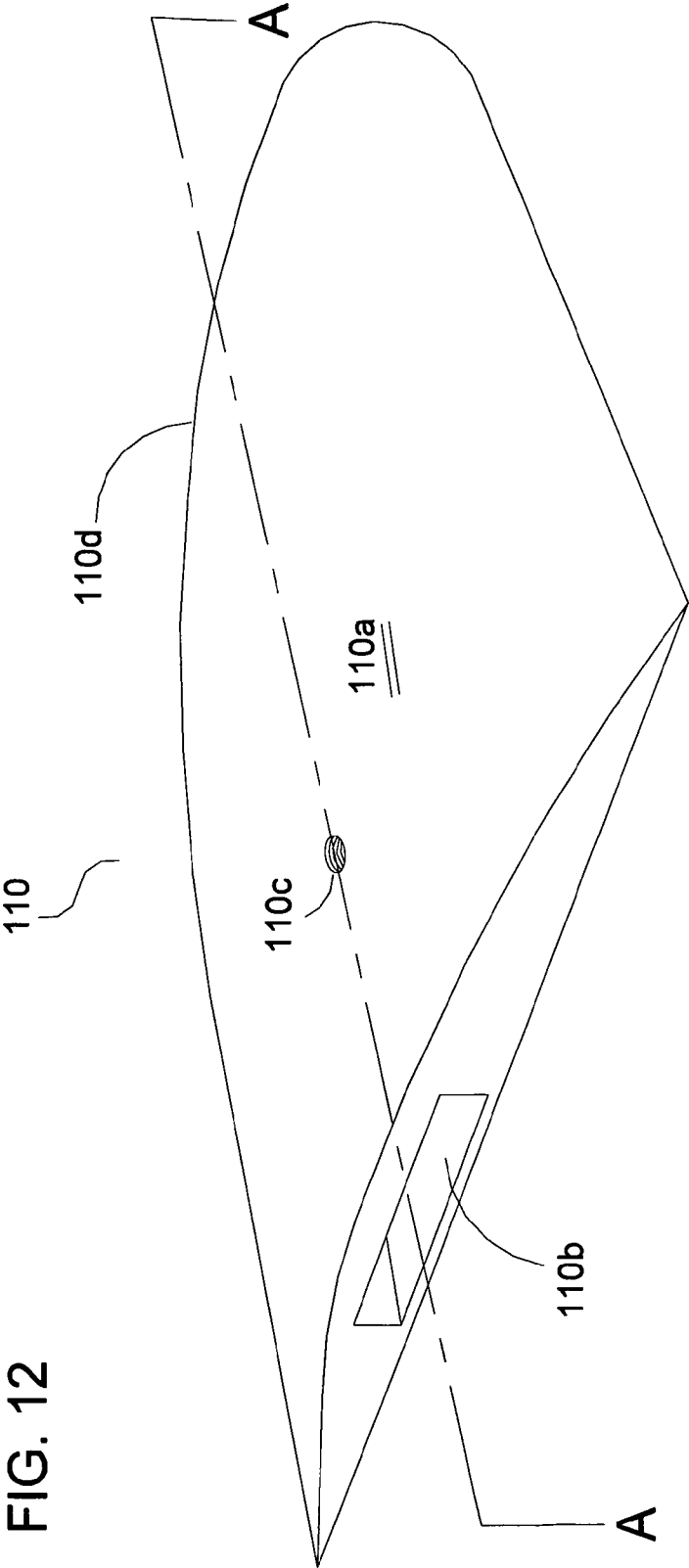


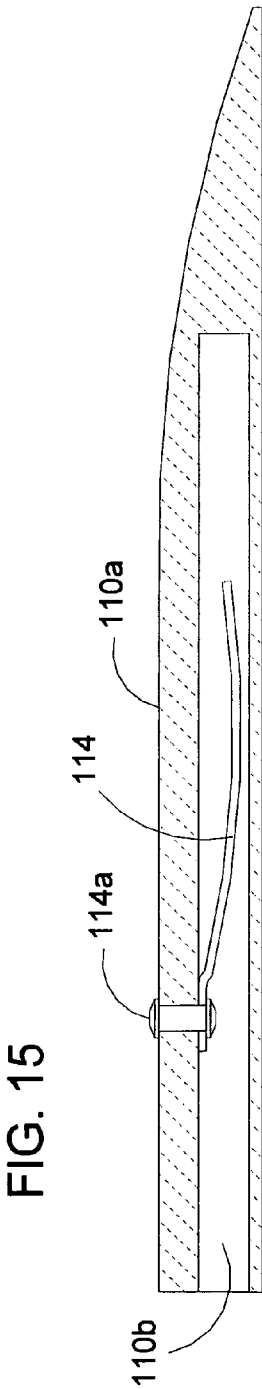
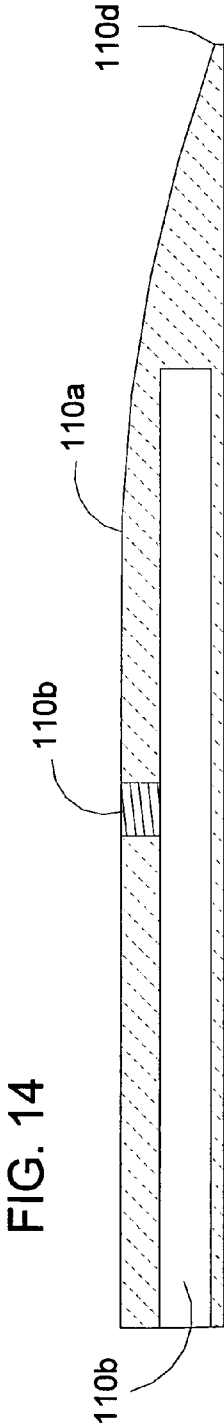
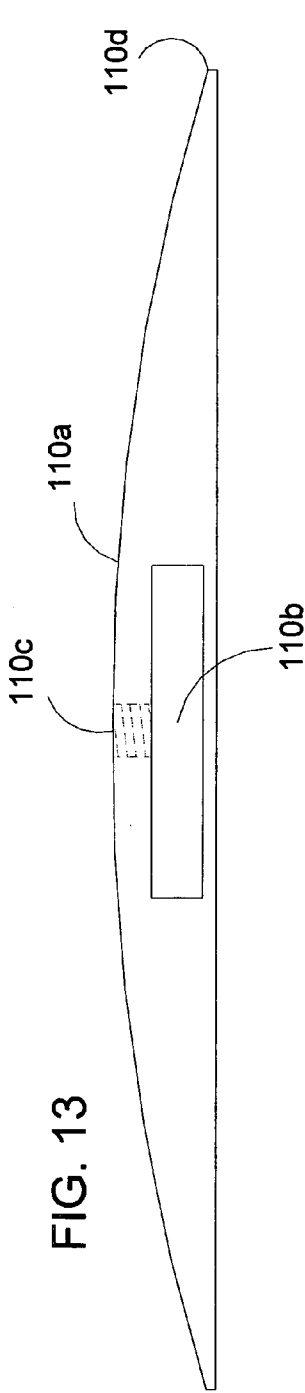


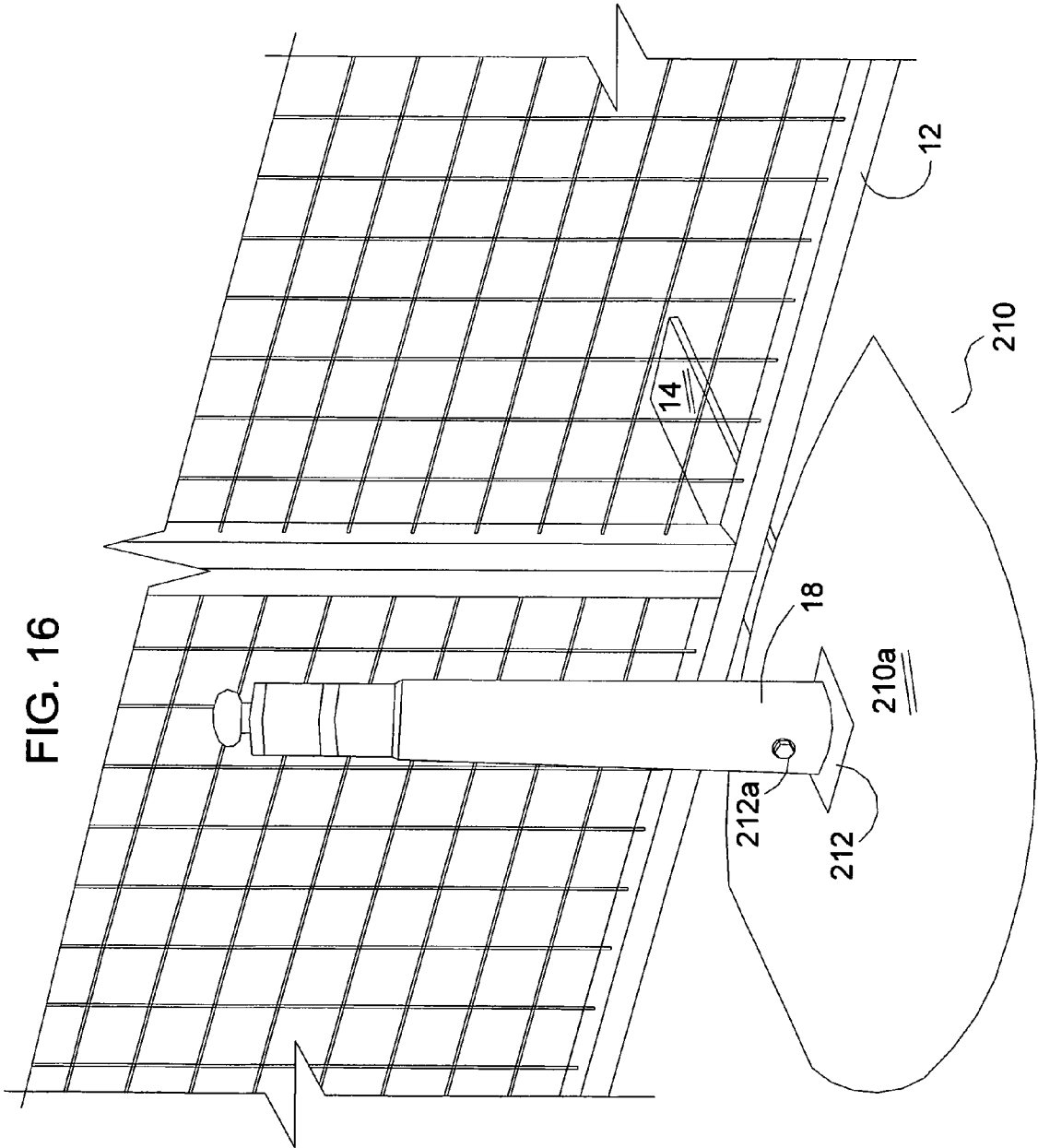












CONSTRUCTION SITE FENCE PANEL FOOT BOOT

RELATED APPLICATIONS

[0001] This application claims priority to and is a divisional of U.S. patent application Ser. No. 12/380,547, filed Jun. 1, 2009, currently allowed and pending issue as U.S. Pat. No. 8,246,012, the subject matter of which is incorporated herein by reference.

TECHNICAL FIELD

[0002] The invention relates to a construction site fence, or barrier, foot plate base unit or “boot”, and more specifically to a construction site fence panel foot cover attachment for separating the fence from traffic and to guide traffic so as to safely allow local traffic such as foot traffic and additionally to allow wheelchairs and scooters to travel safely over the foot.

BACKGROUND OF THE INVENTION

[0003] A construction site often requires a fence to help protect the site from materials being stolen or to keep traffic at a distance from the site or to prevent accidents such as people falling into an excavation.

[0004] Once a fence is installed around a construction site or along a construction site road frontage, there is a potential for traffic that is unfamiliar with the new barrier to come into contact with the fence or the fence panel feet. The typical construction site fence has panels that are roughly 7 feet tall by 10 feet long. The bottom corners of the panels are placed over a fence panel foot, where the foot allows additional panels to be attached and supports them vertically. The outermost part of the “foot” is generally the furthest point away from the fence panel bottom and is subject to contact by close moving automobiles and or foot traffic, especially when the fence panels are erected on or near a sidewalk or walkway adjacent a street or a road.

[0005] To make pedestrians and drivers aware of the barrier it is beneficial to stand traffic delineators adjacent to the periphery of the fence so that traffic can easily see the temporary barrier. The most common approach currently in use is to place a traffic delineator, usually having a rubber base, next to or on top of the fence foot. Sitting on the fence foot allows the traffic delineator to often sit unlevel and the delineator can be easily knocked or moved out of position, or possibly stolen.

[0006] The present invention provides a construction site barrier foot plate base where the base can readily be attached to a traffic delineator without any major changes to a standard traffic delineator or any changes to the fence panel foot, and the base can be subsequently removed from the fence panel foot easily once the construction site fence is removed after site completion.

[0007] In a second embodiment of the present invention a construction site fence panel foot plate is covered by a gradually sloping base.

[0008] The gradually sloping base is readily attached to a fence panel foot plate as well without any changes to the fence panel foot plate and can also be subsequently removed from the fence panel foot when the construction site fence is removed after site completion.

[0009] In a third embodiment of the present invention it is sometimes an advantage to combine the sloping base unit as

just mentioned with the ability to attach a traffic delineator as with the base unit as previously mentioned.

[0010] Accordingly, it is an object of the present invention to provide a construction site fence boot or base unit that easily attaches to a fence panel foot plate.

[0011] Another object of the present invention is to provide improved guidance for automobile traffic to help prevent contact with the fence panel by providing a secure attachment of a highly visible traffic delineator.

[0012] Yet another object of the present invention is to provide protection for pedestrian, wheelchair or scooter traffic from contacting the fence panel foot.

[0013] Still another object of the present invention is to provide for cleaner, neater look around the construction site fence.

[0014] A further object of the present invention is to provide a construction site fence panel foot base with added visibility.

[0015] The construction site fence foot plate base unit of the present invention has other objects and features of advantage which will become apparent from and are set forth in more detail in, the accompanying drawings and following details.

DISCLOSURE OF THE INVENTION

[0016] The construction site fence panel foot base unit of the present invention is designed to cover the outward protruding fence foot plate, and comprises briefly, a base unit that includes a traffic delineator mount that longitudinally extends up from the base. The base unit attaches to the fence foot plate through an aperture, where the aperture slides over the fence panel foot plate. The unit includes a fastener which may be of various types. The fastener generally projects downward into the inside of the aperture so as to contact the fence panel foot plate when applied.

[0017] The base unit attaches various types of traffic delineators to the top of the base unit, usually by a bolt or other fastener running through the top portion of the base unit so that the delineator is attached to stand vertically from the top of the base unit. The delineator is generally a high visibility reflective component which are readily available through many industrial suppliers.

[0018] The base unit can also be attached in various other ways such as clamping or tying, such as with nylon ratchet straps or wiring in place.

[0019] In another embodiment of the present invention, the construction site fence panel foot base unit of the present invention is designed to cover the fence foot plate with a gradually sloping pad, and comprises briefly, a base unit having an aperture that slides over the fence foot plate. This base unit is generally made of plastic or rubber and tapers away from the top over the aperture to the edges of the unit. The base unit would reach out at least a few inches from the foot plate to provide a gentle slope or ramp area.

[0020] This style of “boot” provides a means for foot traffic, wheelchairs and scooters, to ride up over the boot eliminating potential tripping by pedestrians, and bumping by these smaller vehicle wheels, in the area of normal foot and pedestrian type traffic.

[0021] This aspect of the boot may include a high visibility reflective surface around its perimeter.

[0022] As well, this type of boot can also be attached to the foot plate in various ways such as bolting, clamping or tying, such as with nylon ratchet straps or wiring in place.

[0023] In a third embodiment of the present invention, the two types of base units are combined so as to provide a more visible and further effective base unit that can be used in an area where all types of traffic can be expected. This base unit has a traffic delineator mount attached near the center of the pad of the base unit, where the delineator mount protrudes above the pad and includes a bolt hole through the delineator mount in the same manner to attach any commercially available traffic delineator.

[0024] As well, this type of boot can also be attached to the foot plate in various ways such as bolting, clamping or tying, such as with nylon ratchet straps or wiring in place.

[0025] Also, a “puzzle” screw head, or a non-standard key on a tamperproof set screw used on the base unit fastener(s) can further prevent stolen base units and traffic delineators.

BRIEF DESCRIPTION OF THE DRAWINGS

[0026] Advantages of the present invention will become more fully appreciated as the same becomes better understood when considered in conjunction with the following detailed description of an illustrative embodiment and accompanying drawings, in which like reference characters designate the same or similar parts throughout the several views, and wherein;

[0027] FIG. 1 is a perspective view of the preferred embodiment showing the invention mounted onto a construction site fence foot plate.

[0028] FIG. 2 is a perspective view of the preferred embodiment showing the invention un-mounted.

[0029] FIG. 3 is an elevation view of the preferred embodiment without a delineator attached.

[0030] FIG. 4 is a plan view of the preferred embodiment without a delineator attached.

[0031] FIG. 5 is an elevation view of the preferred embodiment with a delineator attached shown in partial view.

[0032] FIG. 6 is a plan view of the preferred embodiment with a delineator attached.

[0033] FIG. 7 is an elevation view of the preferred embodiment showing an alternate inverted C-shaped base.

[0034] FIG. 8 is an elevation view of the preferred embodiment showing an alternate domed shaped base and with two quick-attach setscrews accessible from either side.

[0035] FIG. 9 is an elevation view of the preferred embodiment showing an alternate attachment method with a leaf spring for tool-less attachment.

[0036] FIG. 10 is an elevation view of the preferred embodiment showing an alternate attachment method with a magnetic strip, also for tool-less attachment.

[0037] FIG. 11 is a perspective view of an alternate construction site fence foot plate base unit without a delineator, showing the invention mounted onto a construction site fence foot plate.

[0038] FIG. 12 is a perspective view of the alternate construction site fence foot plate base unit without a delineator, showing the invention un-mounted.

[0039] FIG. 13 is an elevation view from the back side of the alternate construction site fence foot plate base unit of FIG. 12.

[0040] FIG. 14 is a cross-sectional view of the alternate construction site fence foot plate base unit taken along line A from FIG. 12 showing a threaded fastener.

[0041] FIG. 15 is a cross-sectional view of the alternate construction site fence foot plate base unit taken along line A from FIG. 12, showing a leaf spring for tool-less attachment.

[0042] FIG. 16 is a perspective view of an alternate construction site fence foot plate base unit having a delineator with a base mount, and showing the invention mounted onto a construction site fence foot.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0043] The construction site fence panel foot base unit is generally referred to as **10** as shown in a perspective view in FIG. 1. A construction site fence **12** is shown in partial view where fence **12** has a foot plate **14**, where base unit **10** is attached thereon foot plate **14** through aperture **10a** and a traffic delineator **18** is attached on base unit **10**. FIG. 2 shows delineator **18** attached onto base unit **10** and un-attached from fence foot plate **14**. Delineator **18** includes reflector tape **18a**.

[0044] As best seen in FIG. 3 and FIG. 4, base unit **10** includes a section of rectangle tubing or sleeve **10b**, a delineator attachment tube **10c**, a fence foot plate clamping fastener **16**, threaded at the top center of sleeve **10b** and at the bottom center of tube **10c**. Delineator attachment tube **10c** includes a delineator fastener hole **10d**.

[0045] As seen in FIG. 5 and FIG. 6, base unit **10** has delineator **18** attached, shown in partial view. Delineator **18** is longitudinally extending up from base unit sleeve **10b** and is attached by delineator fastener **20**.

[0046] As seen in FIG. 7, an alternate base unit uses a section of rectangle channel **22**, a delineator attachment tube **22a**, a fence foot plate aperture **22b**.

[0047] As seen in FIG. 8, an alternate base unit uses a section of domed channel **24**, a delineator attachment tube **24a**, a fence foot plate aperture **24b**, and two foot plate clamp fasteners **26a** and **26b**.

[0048] As seen in FIG. 9, rectangle tubing **10b** uses a quick-attach fastener, leaf spring **30** attached to the top of aperture **10a** by fastener **30a**.

[0049] As seen in FIG. 10, rectangle tubing **10b** uses an alternate quick-attach fastener, a magnetic strip **32** attached to the bottom of aperture **10a**.

[0050] As best seen in FIGS. 11, 12, 13 and 14, a second embodiment of the present invention, the construction site fence panel foot base unit **110** is designed to cover the fence foot plate **14**. Base unit **110** consists of a gradually sloping pad **110a**. Base unit **110** includes aperture **110b** that slides over the fence foot plate **14**. Base unit pad **110a** tapers away from the top of base unit **110** where threaded fastener **110c** is located, out to the base unit pad edges **110d**. As seen in FIG. 11 base unit **110** may include a high visibility reflector strip **110e** located around base unit edges **110d**.

[0051] As seen in FIG. 15 base unit **110** may use a quick-attach fastener, leaf spring **114** which is attached to the top of aperture **110b** by fastener **114a**.

[0052] As best seen in FIG. 16, a third embodiment of the present invention, the construction site fence panel foot base unit **210** is combined with a traffic delineator mount **212** attached near the center of pad **210a** of the base unit **210**. Delineator mount **212** protrudes above pad **210a** and includes a fastener **212a** through delineator mount **212**, which attaches traffic delineator **18**.

[0053] The foregoing descriptions of specific embodiments of the present invention have been presented for purposes of illustration and description. They are not intended to be exhaustive or to limit the invention to the precise forms disclosed, and obviously many modifications and variations are possible in light of the above teaching. The embodiments

were chosen and described in order to best explain the principles of the invention and its practical application, to thereby enable others skilled in the art to best utilize the invention and various embodiments with various modifications as are suited to the particular use contemplated.

[0054] It is intended that the scope of the invention be defined by the Claims appended hereto and their equivalents.

1. A construction site fence assembly comprising:
a construction site fence panel; a fence panel foot plate attached to said construction site fence panel;
an attachable and releasable base unit mounted onto said fence panel foot plate; and
where said base unit has an aperture through which said fence panel foot plate is matingly affixed so as to connect said base attachment unit to said fence foot plate, said aperture comprising a top roof, two side walls and a bottom floor; and
where said base unit is tapered away from said fence panel foot to create a gentle sloping ramp.
2. The construction site fence assembly of claim 1, wherein said bottom floor of said aperture is defined by a bottom floor portion extending from each said side wall toward one another so as to define a generally C-shape for said base attachment unit.
3. The construction site fence assembly of claim 1, where said base unit includes a threaded fastener protruding downwardly into said aperture so as to affix said base unit to said barrier foot plate.
4. The construction site fence assembly of claim 1, where said base unit includes a high visibility reflector therearound.

5. A construction site fence assembly comprising:
a construction site fence panel;
a fence panel foot plate attached to said construction site fence panel;
an attachable and releasable base unit mounted onto said fence panel foot plate;
where said base unit has an aperture which is matingly affixed so as to connect said base attachment unit to said fence foot plate, said aperture comprising a top roof, two side walls and a bottom floor;
where said base unit is tapered away from said fence panel foot to create a gentle sloping ramp;
where said base attachment unit further comprises an upward protruding traffic delineator attachment mount attached on top of said base attachment unit; and
wherein said traffic delineator attachment mount includes a fastener fastening said traffic delineator to said traffic delineator attachment mount.
6. The construction site fence assembly of claim 5, wherein said bottom floor of said aperture is defined by a bottom floor portion extending from each said side wall toward one another so as to define a generally C-shape for said base attachment unit.
7. The construction site fence assembly of claim 5, where said fastener is a threaded fastener protruding downwardly into said aperture so as to affix said base unit to said construction site fence foot plate.
8. The construction site fence assembly of claim 5, where said base unit includes a high visibility reflector therearound.

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