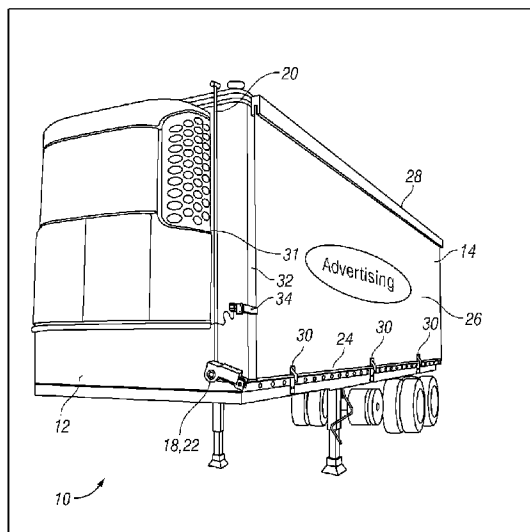




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(54) Title: DEVICES FOR COVERING, DISPLAYING AND/OR REPLACING ADVERTISING ON A MEANS OF TRANSPORTATION



(57) **Abrégé/Abstract:**

The present disclosure relates to devices for covering, displaying and/or advertising on a means of transportation such as a truck trailers. The devices can comprise a horizontal rod for receiving a cover configured to be rolled and unrolled therearound, said cover dimensioned for at least partially covering a side of said trailer when in an unrolled configuration, said horizontal rod being connected to an end of said cover; a drive mechanism operatively connected to said horizontal rod for rolling and unrolling said cover; and a supporting member for mounting on a front end of said trailer and for supporting said drive mechanism operatively connected thereto such that when said drive mechanism is activated for unrolling said cover from said horizontal rod, said drive mechanism and said horizontal rod are downwardly displaced along a longitudinal axis defined by said supporting member and when said drive mechanism is activated for rolling said cover around said horizontal rod, said drive mechanism and said horizontal rod are upwardly displaced along said longitudinal axis.

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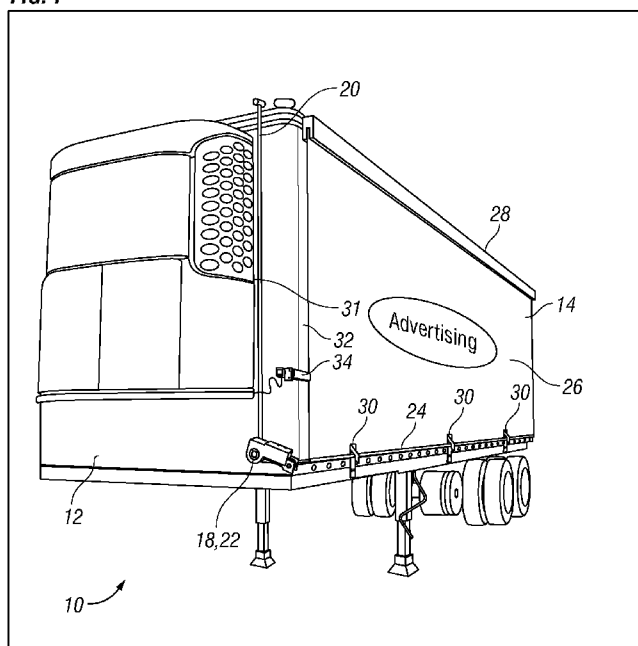
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(54) Title: DEVICES FOR COVERING, DISPLAYING AND/OR REPLACING ADVERTISING ON A MEANS OF TRANSPORTATION

FIG. 7



(57) Abstract: The present disclosure relates to devices for covering, displaying and/or advertising on a means of transportation such as a truck trailers. The devices can comprise a horizontal rod for receiving a cover configured to be rolled and unrolled therearound, said cover dimensioned for at least partially covering a side of said trailer when in an unrolled configuration, said horizontal rod being connected to an end of said cover; a drive mechanism operatively connected to said horizontal rod for rolling and unrolling said cover; and a supporting member for mounting on a front end of said trailer and for supporting said drive mechanism operatively connected thereto such that when said drive mechanism is activated for unrolling said cover from said horizontal rod, said drive mechanism and said horizontal rod are downwardly displaced along a longitudinal axis defined by said supporting member and when said drive mechanism is activated for rolling said cover around said horizontal rod, said drive mechanism and said horizontal rod are upwardly displaced along said longitudinal axis.

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DEVICES FOR COVERING, DISPLAYING AND/OR REPLACING ADVERTISING ON A MEANS OF TRANSPORTATION

[001]

FIELD OF THE DISCLOSURE

[002] The present disclosure relates to covers for transportation means and more particularly to devices for covering, displaying and/or replacing advertising on motor vehicles.

BACKGROUND OF THE DISCLOSURE

[003] Advertising using motor vehicles, for example trucks or buses, is a widely used and cost-effective alternative to stationary advertising, for example, billboards. The vehicle's surface area provides visibility and its mobility makes advertising available to a large and/or targeted public. For example, trucks used to transport goods have long been used for displaying advertising material, particularly for goods being transported by the trucks.

[004] A limitation of applying signage directly on the vehicle is that the signage is generally intended to be permanent or in the alternative is burdensome to remove or replace. Various types of motor vehicle advertising assemblies have been developed over the years including removable sign assemblies that can be mounted over different portions of the vehicles, including for example the side and rear sections of a truck trailer. For example, EP1288890B1 describes an information device that can be attached to the rear of a truck trailer.

[005] Removable cover systems for truck trailers are also known. For example, U.S. Patent No. 9,126,471 describes a rolling tarpaulin system for selectively covering and uncovering trailers for trucks. The rolling system comprises a roller bar supported mounted on the front and rear ends of the trailer. The rolling system is designed for structurally covering open truck trailers but is however not designed

for covering closed trailers (such as dry box truck trailers) comprising typical rear doors such as barn doors or roll-up doors.

[006] Thus, there remains a need to provide devices for covering, displaying and/or advertising that are compatible with most closed truck trailers e.g. dry box truck trailers. There is also a need for providing a simple solution that can be easily installed and acquired at low costs and that can be easy to use and to remove. Finally, there is a need for overcoming at least one drawback found in prior art devices and/or providing an alternative.

SUMMARY OF THE DISCLOSURE

[007] According to an aspect of the present disclosure, there is provided a device for at least one of covering and advertising on a truck trailer, comprising:

a horizontal rod for receiving a cover that is configured to be rolled and unrolled therearound, the cover being dimensioned for at least partially covering a side of the trailer when in an unrolled configuration, the horizontal rod being connected to the cover;

a drive mechanism operatively connected to the horizontal rod for rolling and unrolling the cover;

a supporting member for mounting on a front end of the trailer and for supporting the drive mechanism operatively connected thereto such that when the drive mechanism is activated for unrolling the cover from the horizontal rod, the drive mechanism and the horizontal rod are downwardly displaced along a longitudinal axis defined by the supporting member and when the drive mechanism is activated for rolling the cover around the horizontal rod, the drive mechanism and the horizontal rod are upwardly displaced along the longitudinal axis; and

at least one of (i) a vertical band for at least reducing air flowing between the cover and the trailer and (ii) a retaining member for retaining the cover in the unrolled configuration.

[008] According to another aspect herein described, there is provided a device for at least one of covering and advertising on a truck trailer, comprising:

a horizontal rod for receiving a cover that is configured to be rolled and unrolled therearound, the cover being dimensioned for at least partially covering a side of the trailer when in an unrolled configuration, the horizontal rod being connected to the cover;

a drive mechanism operatively connected to the horizontal rod for rolling and unrolling the cover; and

a supporting member consisting of a vertical member for mounting on a front end of the trailer and for supporting the drive mechanism operatively connected thereto such that when the drive mechanism is activated for unrolling the cover from the horizontal rod, the drive mechanism and the horizontal rod are downwardly displaced along a longitudinal axis defined by the supporting member and when the drive mechanism is activated for rolling the cover around the horizontal rod, the drive mechanism and the horizontal rod are upwardly displaced along the longitudinal axis.

[009] It has been found that the devices of the present disclosure are effective for easily and rapidly covering and uncovering at least one side of a trailer truck. For example, the drive mechanism allows the user to easily roll or unroll the cover. These devices have been found to be effective for covering or hiding an advertisement on a truck trailer by either a blank cover or another advertisement on the cover. Moreover, these devices have been found to be effective for displaying temporarily an advertisement on a truck trailer that has no specific advertisement on its sides. Owners of truck trailers companies often face such a challenge since they deliver products for Company A by using their truck trailers and they thus have a painted advertisement on the truck trailers related to Company A. However, when such a truck trailer is not used for delivering products of Company A, the owners may be prevented from using the trailer for delivering goods and products for

companies other than Company A, thereby leading to economic losses due to inactivity of the truck trailers. The devices of the present disclosure thus allow to overcome such drawbacks since, for example, the advertising of Company A can easily be covered or hidden by the devices of the present disclosure so as to either cover it with another advertisement of another company or to simply cover the advertisement of Company A with a blank cover.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] In the following figures, which represent by way of example only, various embodiments of the disclosure:

[0011] Fig. 1 is a front elevation view of the lower portion of the front end of a truck trailer on which is mounted a support member. The horizontal rod and drive mechanism (both not shown) are in a raised position and the cover (not shown) is rolled around the horizontal rod.

[0012] Fig. 2 is a partial view of the front corner of the truck trailer showing the horizontal rod and drive mechanism disposed in a receptacle in a raised position and the cover rolled around the horizontal rod.

[0013] Fig. 3 is a partial view of the side of the truck trailer showing the cover in a rolled configuration.

[0014] Fig. 4 is a partial view of a front portion of the side of the truck trailer showing the cover in a rolled configuration.

[0015] Fig. 5 is a side view of a rear portion of the side of the truck trailer showing the cover in a rolled configuration.

[0016] Fig. 6 is a perspective view of the side of the truck trailer and a partial view of the rear end portion of the truck trailer showing the cover in a rolled configuration.

[0017] Fig. 7 is a side perspective view of the truck trailer on which is mounted the cover in an unrolled configuration. The horizontal rod and drive mechanism are in a lowered position.

[0018] Fig. 8 is a partial view of a front corner of the truck trailer showing the cover in an unrolled configuration.

[0019] Fig. 9 is a close-up view of the drive mechanism disposed in a receptacle.

[0020] Fig. 10 is a close-up view of a retaining member.

[0021] Fig. 11 is a perspective view of a rear portion of the side of the truck trailer showing the cover in an unrolled configuration.

DETAILED DESCRIPTION OF THE DISCLOSURE

[0022] As used in this specification and the appended claims, the singular forms “a”, “an” and “the” include plural references unless the content clearly dictates otherwise. Thus for example, a composition containing “a compound” includes a mixture of two or more compounds. It should also be noted that the term “or” is generally employed in its sense including “and/or” unless the content clearly dictates otherwise.

[0023] In understanding the scope of the present disclosure, the term “comprising” and its derivatives, as used herein, are intended to be open ended terms that specify the presence of the stated features, elements, components, groups, integers, and/or steps, but do not exclude the presence of other unstated features, elements, components, groups, integers and/or steps. The foregoing also applies to words having similar meanings such as the terms “including”, “having” and their derivatives. Finally, terms of degree such as “substantially”, “about” and “approximately” as used herein mean a reasonable amount of deviation of the modified term such that the end result is not significantly changed. These terms of degree should be construed as including a deviation of $\pm 10\%$ of the modified term if this deviation would not negate the meaning of the word it modifies.

[0024] The definitions and embodiments described in particular sections are intended to be applicable to other embodiments herein described for which they are suitable as would be understood by a person skilled in the art.

[0025] The recitation of numerical ranges by endpoints herein includes all numbers and fractions subsumed within that range (e.g. 1 to 5 includes 1, 1.5, 2, 2.75, 3, 3.90, 4, and 5). It is also to be understood that all numbers and fractions thereof are presumed to be modified by the term "about."

[0026] For example, the means of transportation can be chosen from trucks, buses, trains, cars, tramways, subways and metros.

[0027] It will be understood that the presently described devices may be used with any suitable type of vehicle, for example trucks, buses, trains, cars, tramways, subways, metros etc. For example, the devices of the present disclosure can be used with trucks and in particular with trailer trucks. The devices herein described may also be suitable for example for trucks having open trailers or closed trailers. For example, the devices may be suitable for trucks with closed trailers (such as dry box truck trailers) having doors located at the rear end (e.g. barn doors and roll-up rear end doors).

[0028] Also, although the devices herein described relates to a single cover designed to cover one side of the vehicle, it will be understood that the devices can be useful for covering, displaying and/or advertising on both sides of the vehicle, for example on both sides of the truck trailers.

[0029] The skilled person will readily understand that when the cover is in the rolled configuration, the drive mechanism and horizontal rod are both in a raised position and the trailer side is displayed. Conversely, when the cover is in an unrolled configuration, the drive mechanism and horizontal rod are both in a lowered position and the trailer side is at least partially concealed or covered.

[0030] For example, the devices comprise at least one retaining member for maintaining substantial tautness of the cover when the cover is in the unrolled configuration.

[0031] For example, the at least one retaining member is configured to be mounted on the side of the trailer.

[0032] The person skilled in the art will understand that the retaining member can have various shapes and sizes so long as it is suitable for preventing the cover from rolling up and maintaining substantial tautness of the cover. Other known retaining members can be used. For example, the retaining member can comprise a flange extending along an edge of the trailer as well as a biasing mechanism, for example a spring urging the cover in an unrolled configuration, as describe in U.S. Patent No. 9,126,471.

[0033] For example, the cover comprises at least one vertical slit adjacent to the horizontal rod, each of the at least one vertical slit dimensioned for inserting a portion of each of the at least one retaining member therein. It will be understood that any suitable opening made through the cover that provides sufficient clearance for inserting the retaining member therein can be used and is not limited to slits such as vertical slits.

[0034] For example, the at least one retaining member is a hook. The hook can be made of any suitable material. For example, the hook can be made of metal.

[0035] For example, the devices can comprise two, three or four retaining members.

[0036] For example, the supporting member is a vertical member.

[0037] For example, the vertical member is a vertical rod.

[0038] It will be understood that the supporting member can be mounted or attached to the front end of the truck trailer using any known methods, for example by welding or screwing.

[0039] For example, the devices are for covering the truck trailer.

[0040] For example, the devices are for advertising on the truck trailer.

[0041] For example, the devices are for displaying and/or replacing an advertisement.

[0042] For example, the drive mechanism operatively connected to the horizontal rod powers rotation of the horizontal rod.

[0043] For example, the drive mechanism operatively connected to the supporting member powers displacement of the horizontal rod and the drive mechanism along the longitudinal axis defined by the supporting member

[0044] For example, the drive mechanism powers simultaneous movement of the rotation of the horizontal rod and displacement of the horizontal rod and the drive mechanism along the longitudinal axis defined by the supporting member.

[0045] For example, the simultaneous movement powered by the drive mechanism is obtained by means of a gear mechanism or a drive belt.

[0046] For example, the drive mechanism is disposed in a receptacle.

[0047] For example, the receptacle further comprises a supporting arm extending therefrom for supporting the horizontal rod.

[0048] For example, the receptacle further comprises wheels rotatably mounted thereto and operatively connected to the drive mechanism for allowing displacement of the drive mechanism along the longitudinal axis defined by the supporting member.

[0049] For example, the drive mechanism is a motor.

[0050] For example, the drive mechanism is an electric motor.

[0051] It will be understood that the electrical motor can receive electrical power from various sources. For example, the electrical power can come from the battery of the truck. For example, the electrical power can be a source external to the truck.

[0052] For example, the devices comprise a vertical band for at least reducing air flowing between the cover and the trailer.

[0053] For example, the vertical band is configured to be mounted on the side of the trailer that is adjacent to a vertical edge of the cover.

[0054] For example, the vertical band is configured to press down on at least partially a portion of the vertical edge of the cover.

[0055] For example, the vertical band is configured to be mounted on the side of the trailer adjacent to the front end of the trailer.

[0056] For example, the devices can further comprise a biasing member for urging the vertical band against the cover. It will be understood any other known biasing members that are suitable for forcibly causing the vertical band to press against the edge of the cover can be used, such as for example, spring biasing means.

[0057] For example, the devices can further comprise a housing for receiving the horizontal rod and the cover when in the rolled configuration.

[0058] For example, the horizontal rod is attached to a lower end of the cover. For example, the lower end of the cover can form a loop in which the horizontal rod is inserted therein.

[0059] It will be noted that the cover can be made of any suitable flexible material for displaying advertising or for concealing the side of the trailer. Preferably, the cover is made of a waterproof, sturdy and resistant yet flexible material.

[0060] For example, the cover is chosen from a tarpaulin or a canvas.

[0061] As previously mentioned, the cover is dimensioned for at least partially covering a side of the trailer when in an unrolled configuration. It will be understood that the cover is not limited to having the same dimension as the trailer side or to covering all of the trailer side. The shape of the cover can also vary according to desired coverage.

[0062] It will also be understood that the presently disclosed cover is not limited to displaying advertising on a cover. For example, the devices can also be used to conceal an existing display on the side of the truck.

[0063] The following examples are non-limitative and are used to better exemplify the materials and processes of the present disclosure.

EXAMPLES

[0064] Referring now to the exemplary figures, the device herein disclosed is shown in a raised position (e.g. cover in a rolled configuration) in Fig. 1 to 6 and in a lowered position (e.g. cover in an unrolled configuration) in Fig. 7 to 11. The drive mechanism 18 is operatively connected to the horizontal rod 24 such that when the drive mechanism 18 is activated, it powers simultaneous vertical displacement of the horizontal rod 24 and of the drive mechanism 18 along a longitudinal axis defined by the supporting member 20, as well as rotation of the horizontal rod 24 which allows rolling and unrolling of the cover 26.

[0065] Referring now to Fig. 1 and 2, the supporting member 20 is mounted on the front end 12 of the truck trailer 10. As mentioned above, the device is shown in a raised position in Fig. 1 and 2. The drive mechanism 18 (e.g. an electric motor), which is placed in a receptacle 22, supports the horizontal rod 24 around which the cover 26 is rolled. Both the drive mechanism 18 and the horizontal rod 24 are shown in a raised position, e.g. near the upper end of the trailer side 14.

[0066] Fig. 3 to 5 show different views of the side of the truck trailer 10. Referring more specifically to Fig. 3, a retaining member 30 is shown attached to the lower end of the side trailer 14. In this particular example, the retaining member 30 is a hook. Fig. 4 and 5 show the upper end of the trailer side 14. The horizontal rod 24 as well as the cover 26 rolled around the horizontal rod 24 are received and concealed in a housing 28. As shown in Fig. 2 and 4, the horizontal rod 24 and rolled cover 26 are substantially disposed at the same height as the drive mechanism 18. Indeed, when the drive mechanism 18 is activated, both the drive mechanism 18 (supported by the

supporting member 20) and the horizontal rod 24 (which also rotates upon activation of the drive mechanism) are simultaneously vertically displaced.

[0067] Fig. 6 is a rear view of the truck trailer 16 showing the device in a raised position. The housing 28 in which is received the horizontal rod 24 and cover 26 in a rolled configuration is shown. The rear end doors of the trailer 10 are also shown (e.g. barn doors). An advantage of the device is that it comprises a single supporting member mounted to the front end of the truck trailer and no supporting member mounted to the rear end of the truck trailer, thus the device does not impede functioning of the rear end doors.

[0068] Now referring to Fig. 7 to 11, therein is illustrated the device in a lowered position. As shown in Fig. 7 and 8, the horizontal rod 24 and drive mechanism 18 are located near the lower end of the trailer side 14. The cover 26 is completely unrolled and is retained by retaining members 30, for example hooks. Fig. 10 and 11 show close-ups of the retaining members 30 which not only retain the cover 26 in an unrolled configuration but also reduce slack and increase tautness of the cover 26. In Fig. 10, the retaining member 30 is inserted into the cover 26 via a vertical slit 38 in the cover adjacent to the horizontal rod 24. Fig. 10 also shows that the lower end of the cover 26 is attached to the horizontal rod 24. More specifically, a cover loop 40 is formed with the lower end of the cover 26 (for example the cover loop 40 is secured by stitching) and the horizontal rod 24 is inserted in the cover loop 40. The retaining member 30 which is inserted into the vertical slit 38 allows to retain the horizontal rod 24 which in turn provides securing of the cover 26 in an unrolled configuration as well as tautness of the cover 26. Fig. 9 is a close-up view of the drive mechanism 18 disposed in a receptacle 22 and operatively coupled to the horizontal rod 24 by a drive belt 36. In some embodiments, the drive mechanism is displaced vertically about the supporting member 20 by means of wheels (not shown) mounted in the receptacle 22 and coupled to the supporting member 20.

[0069] The device, as shown in Fig. 7 and 8, also comprises a vertical band 32 and a biasing member 34 for reducing air flowing between the trailer side 14 and the cover 26. Referring more particularly to Fig. 8, the vertical band 32 is attached to the

side of the trailer 14 near the front end of the trailer 12. The vertical band 32 extends over a substantial portion of the edge of the cover 26 that is near the front end of the trailer 12. The biasing member 34 applies pressure to the vertical band 32 which then forces against the edge of the cover 26.

[0070] It has also been found that the device herein described can allow for minimized slack in the cover. For example, the retaining member can provide tautness to the cover. For example, the vertical band and biasing member pressing against the edge of the cover are effective to reduce air flowing between the cover and trailer side.

Element	Reference numeral
Truck trailer	10
Front end of trailer	12
Side of trailer	14
Rear of trailer	16
Drive mechanism	18
Supporting member	20
Receptacle	22
Horizontal rod	24
Cover	26
Housing	28
Retaining member	30
Vertical band	32
Biasing member	34
Belt drive	36
Vertical slit	38
Cover loop	40

WHAT IS CLAIMED IS:

1. A device for at least one of covering and advertising on a truck trailer, comprising:
 - a horizontal rod for receiving a cover that is configured to be rolled and unrolled therearound, said cover being dimensioned for at least partially covering a side of said trailer when in an unrolled configuration, said horizontal rod being connected to said cover;
 - a drive mechanism operatively connected to said horizontal rod for rolling and unrolling said cover;
 - a supporting member for mounting on a front end of said trailer and for supporting said drive mechanism operatively connected thereto such that when said drive mechanism is activated for unrolling said cover from said horizontal rod, said drive mechanism and said horizontal rod are downwardly displaced along a longitudinal axis defined by said supporting member and when said drive mechanism is activated for rolling said cover around said horizontal rod, said drive mechanism and said horizontal rod are upwardly displaced along said longitudinal axis; and
 - at least one of (i) a vertical band for at least reducing air flowing between said cover and said trailer and (ii) a retaining member for retaining said cover in said unrolled configuration.
2. A device for at least one of covering and advertising on a truck trailer, comprising:
 - a horizontal rod for receiving a cover that is configured to be rolled and unrolled therearound, said cover being dimensioned for at least partially covering a side of said trailer when in an unrolled configuration, said horizontal rod being connected to said cover;
 - a drive mechanism operatively connected to said horizontal rod for rolling and unrolling said cover; and

a supporting member consisting of a vertical member for mounting on a front end of said trailer and for supporting said drive mechanism operatively connected thereto such that when said drive mechanism is activated for unrolling said cover from said horizontal rod, said drive mechanism and said horizontal rod are downwardly displaced along a longitudinal axis defined by said supporting member and when said drive mechanism is activated for rolling said cover around said horizontal rod, said drive mechanism and said horizontal rod are upwardly displaced along said longitudinal axis.

3. The device of claim 1 or 2, wherein said device comprises at least one retaining member for maintaining substantial tautness of said cover when said cover is in said unrolled configuration.
4. The device of claim 3, wherein said at least one retaining member is configured to be mounted on said side of said trailer.
5. The device of any one of claims 1, 3 and 4, wherein said cover comprises at least one vertical slit adjacent to said horizontal rod, each of said at least one vertical slit dimensioned for inserting a portion of each of said at least one retaining member therein.
6. The device of any one of claims 1 and 3 to 5, wherein said at least one retaining member is a hook.
7. The device of any one of claims 1 and 3 to 6, wherein said device comprises two, three or four retaining members.
8. The device of any one of claims 1 and 3 to 7, wherein said supporting member is a vertical member.
9. The device of claim 2 or 8, wherein said vertical member is a vertical rod.
10. The device of any one of claims 1 to 9, wherein said device is for covering said truck trailer.

11. The device of any one of claims 1 to 10, wherein said device is for advertising on said truck trailer.
12. The device of any one of claims 1 to 11, wherein said device is for at least one of displaying and replacing an advertisement on said truck trailer.
13. The device of any one of claims 1 to 12, wherein said drive mechanism operatively connected to said horizontal rod powers rotation of said horizontal rod.
14. The device of any one of claims 1 to 13, wherein said drive mechanism operatively connected to said supporting member powers displacement of said horizontal rod and said drive mechanism along said longitudinal axis defined by said supporting member.
15. The device of any one of claims 1 to 14, wherein said drive mechanism powers simultaneous movement of said rotation of said horizontal rod and displacement of said horizontal rod and said drive mechanism along said longitudinal axis defined by said supporting member.
16. The device of claim 15, wherein said simultaneous movement powered by said drive mechanism is obtained by means of a gear mechanism or a drive belt.
17. The device of any one of claims 1 to 16, wherein said drive mechanism is disposed in a receptacle.
18. The device of claim 17, wherein said receptacle further comprises a supporting arm extending therefrom for supporting said horizontal rod.
19. The device of claim 17 or 18, wherein said receptacle further comprises wheels rotatably mounted thereto and operatively connected to said drive mechanism for allowing displacement of said drive mechanism along said longitudinal axis defined by said supporting member.
20. The device of any one of claims 1 to 19, wherein said drive mechanism is a motor.

21. The device of any one of claims 1 to 20, wherein said drive mechanism is an electric motor.
22. The device of any one of claims 1 to 21, wherein said device comprises a vertical band for at least reducing air flowing between said cover and said trailer.
23. The device of claim 22, wherein said vertical band is configured to be mounted on said side of said trailer that is adjacent to a vertical edge of said cover.
24. The device of claim 22 or 23, wherein said vertical band is configured to press down on at least partially a portion of said vertical edge of said cover.
25. The device of any one of claims 22 to 24, wherein said vertical band is configured to be mounted on said side of said trailer adjacent to said front end of said trailer.
26. The device of any one of claims 1 or 3 to 25, further comprising a biasing member for urging said vertical band against said cover.
27. The device of any one of claims 1 to 26, further comprising a housing for receiving said horizontal rod and said cover when said cover is in rolled configuration.
28. The device of any one of claims 1 to 27, wherein said horizontal rod is attached to a lower end of said cover.
29. The device of any one of claims 1 to 28, wherein said cover is a canvas.
30. The device of any one of claims 1 to 28, wherein said cover is a tarpaulin.

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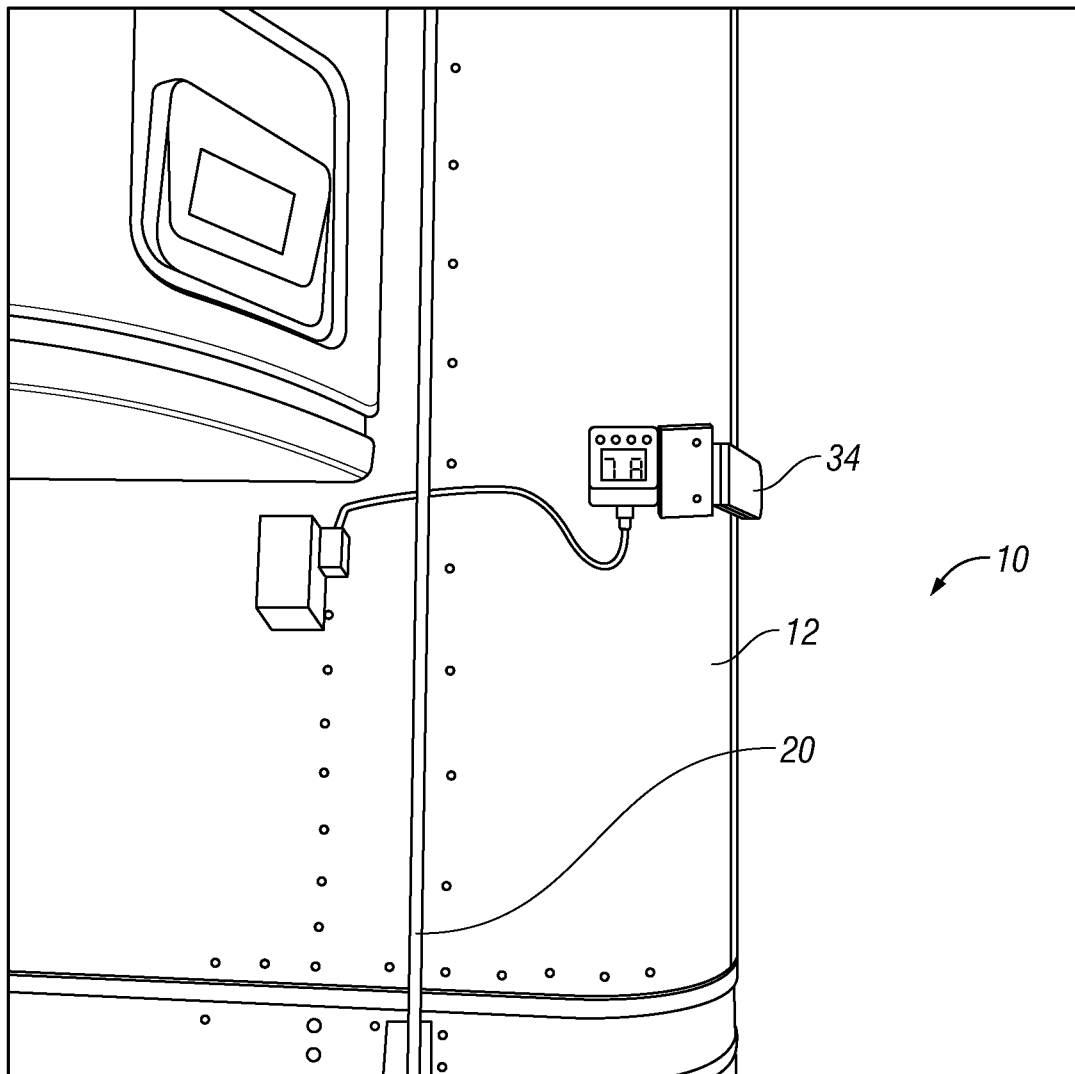


FIG. 1

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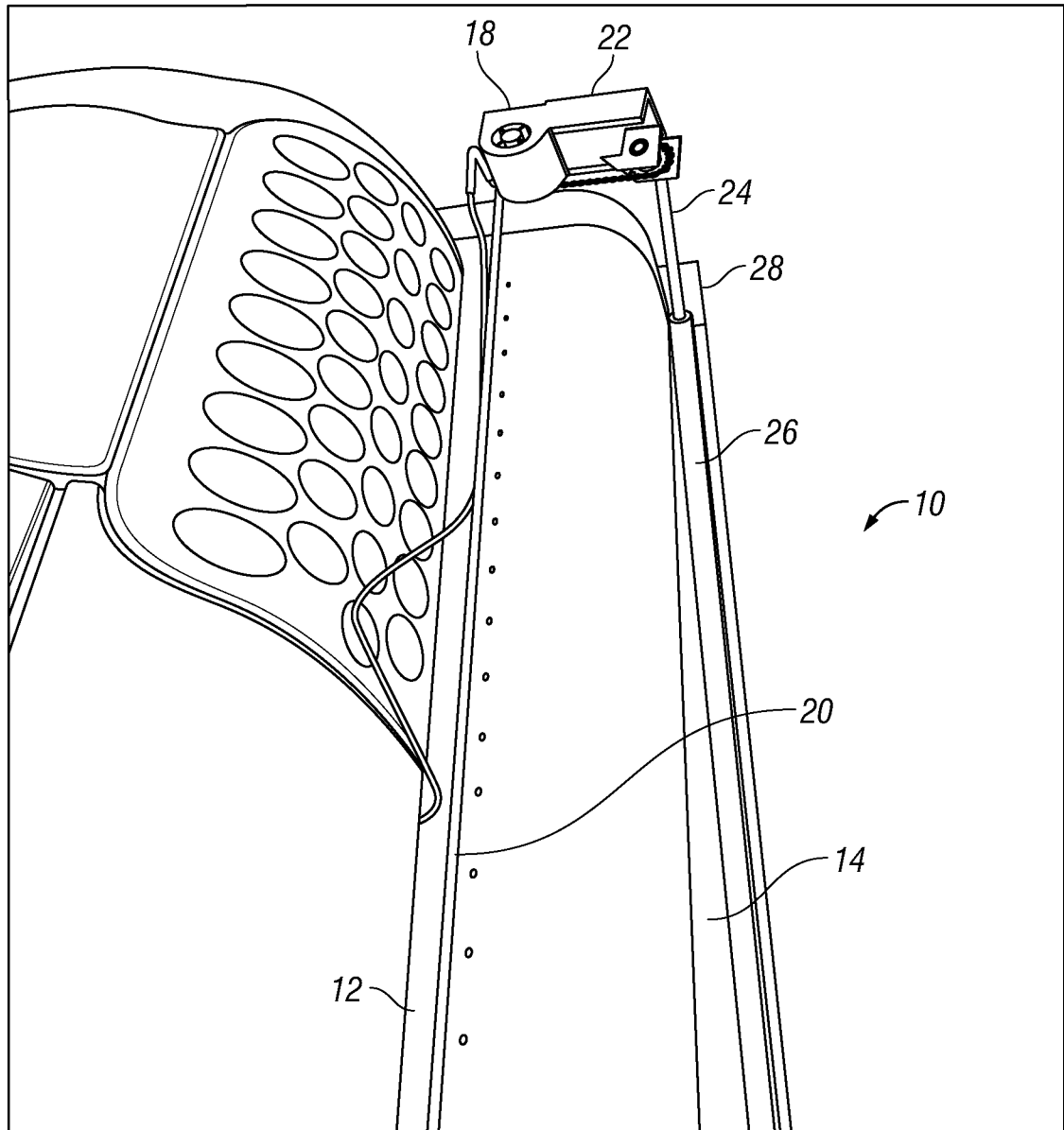
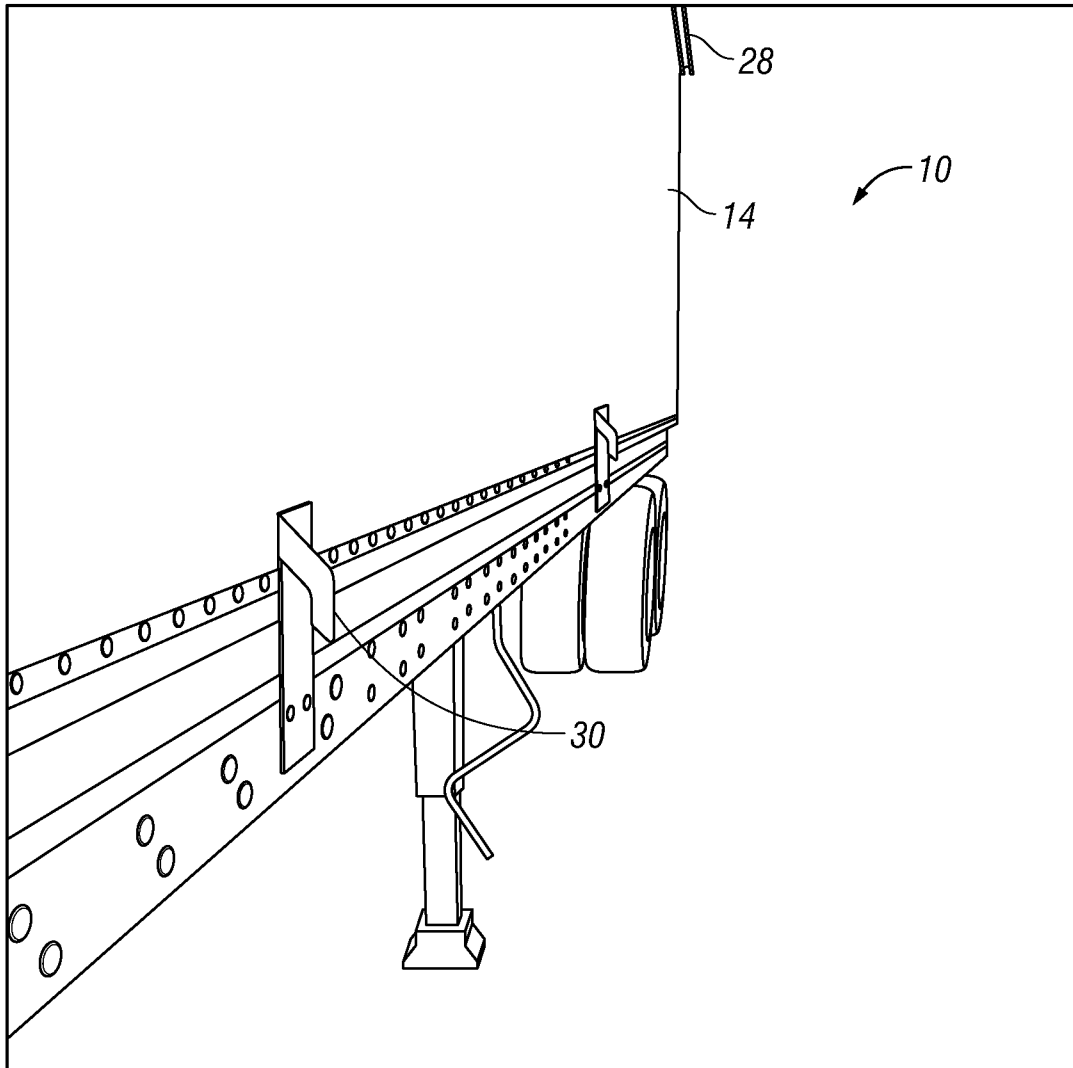


FIG. 2

3/11**FIG. 3**

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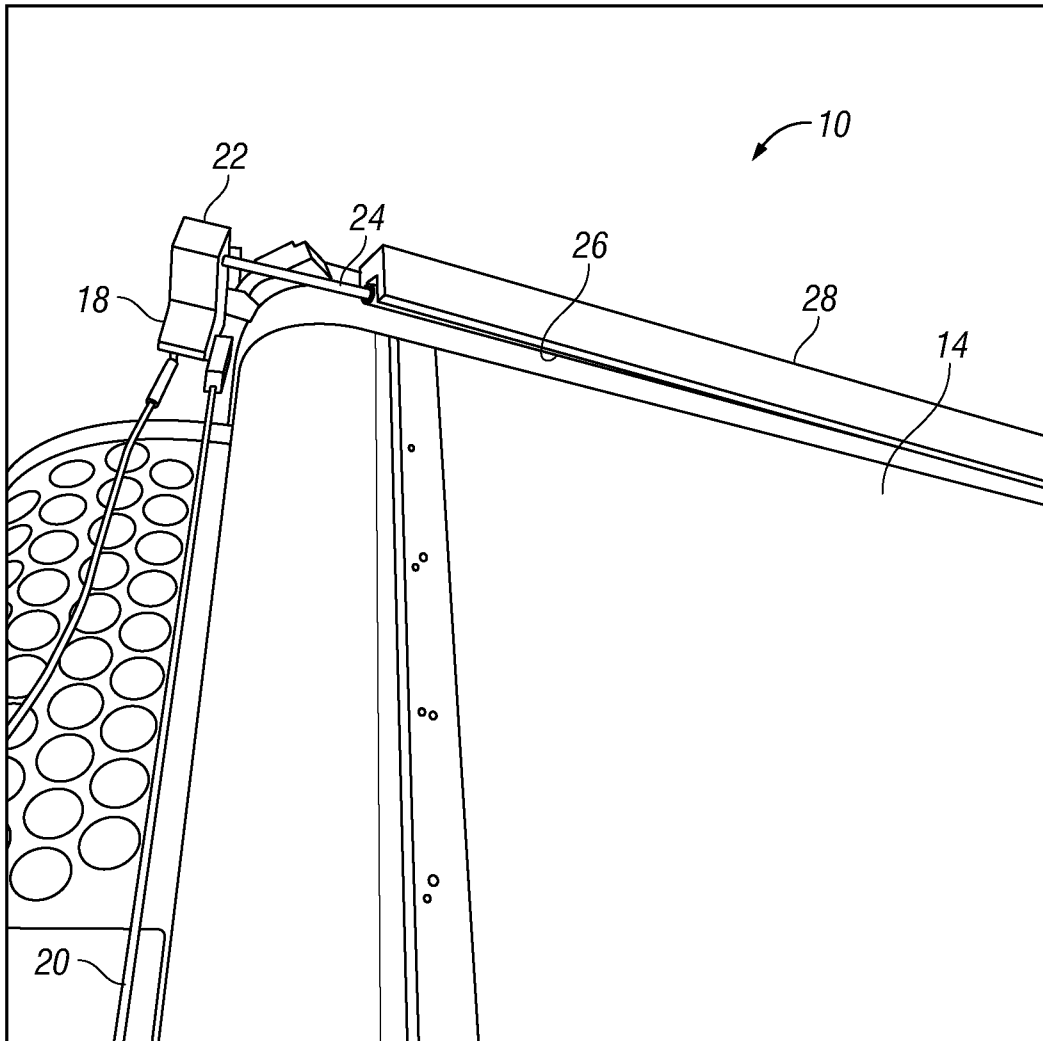
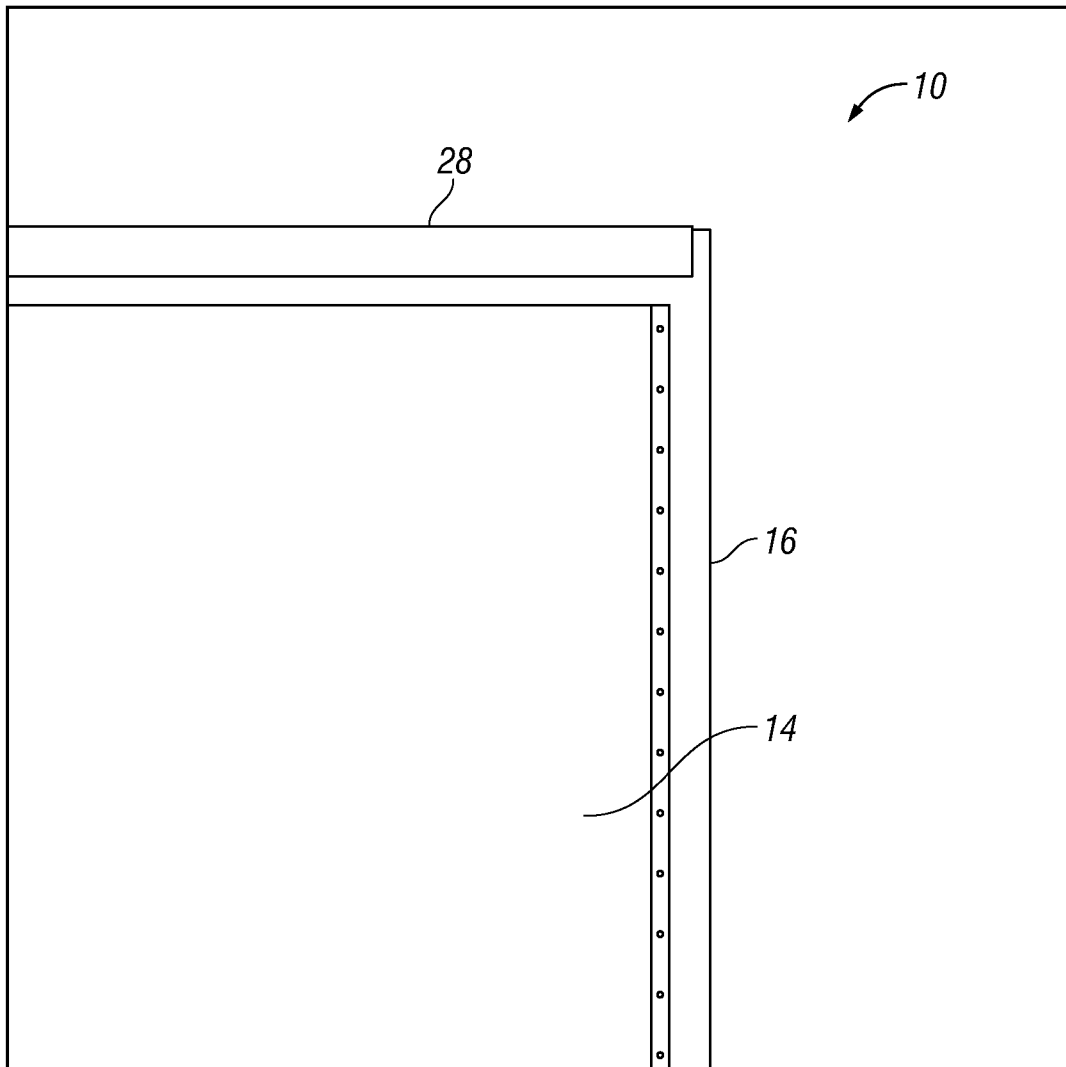
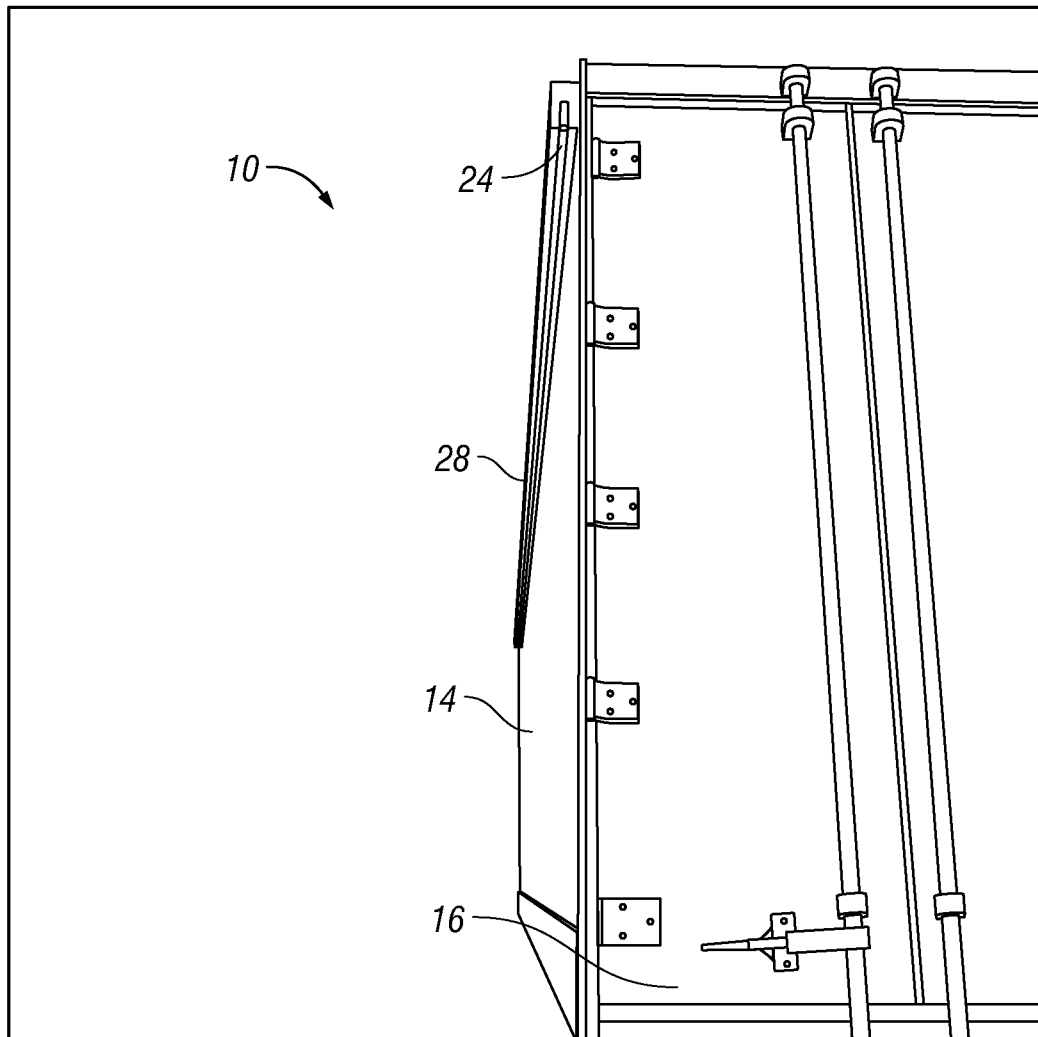


FIG. 4

5/11**FIG. 5**

6/11**FIG. 6**

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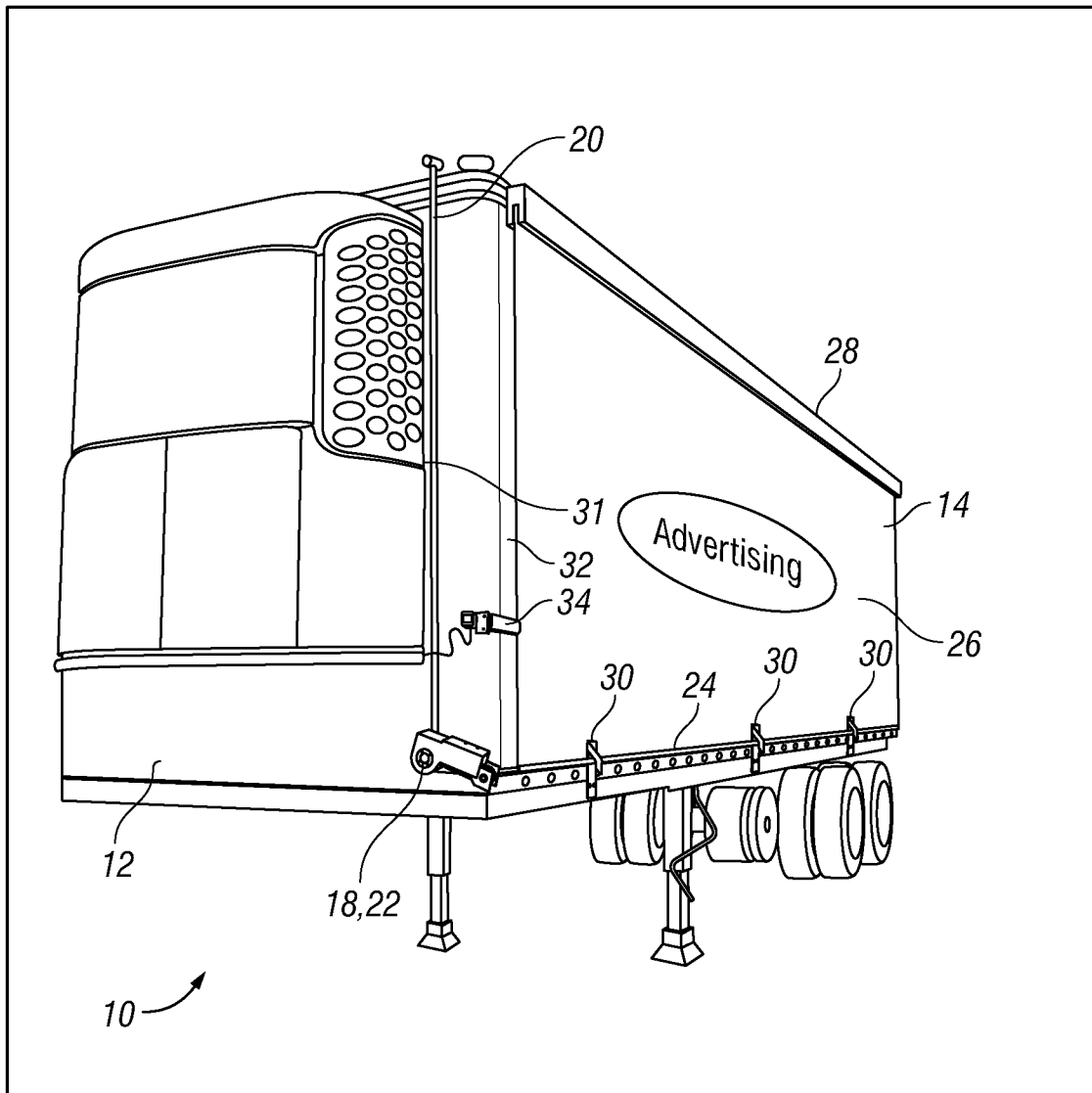


FIG. 7

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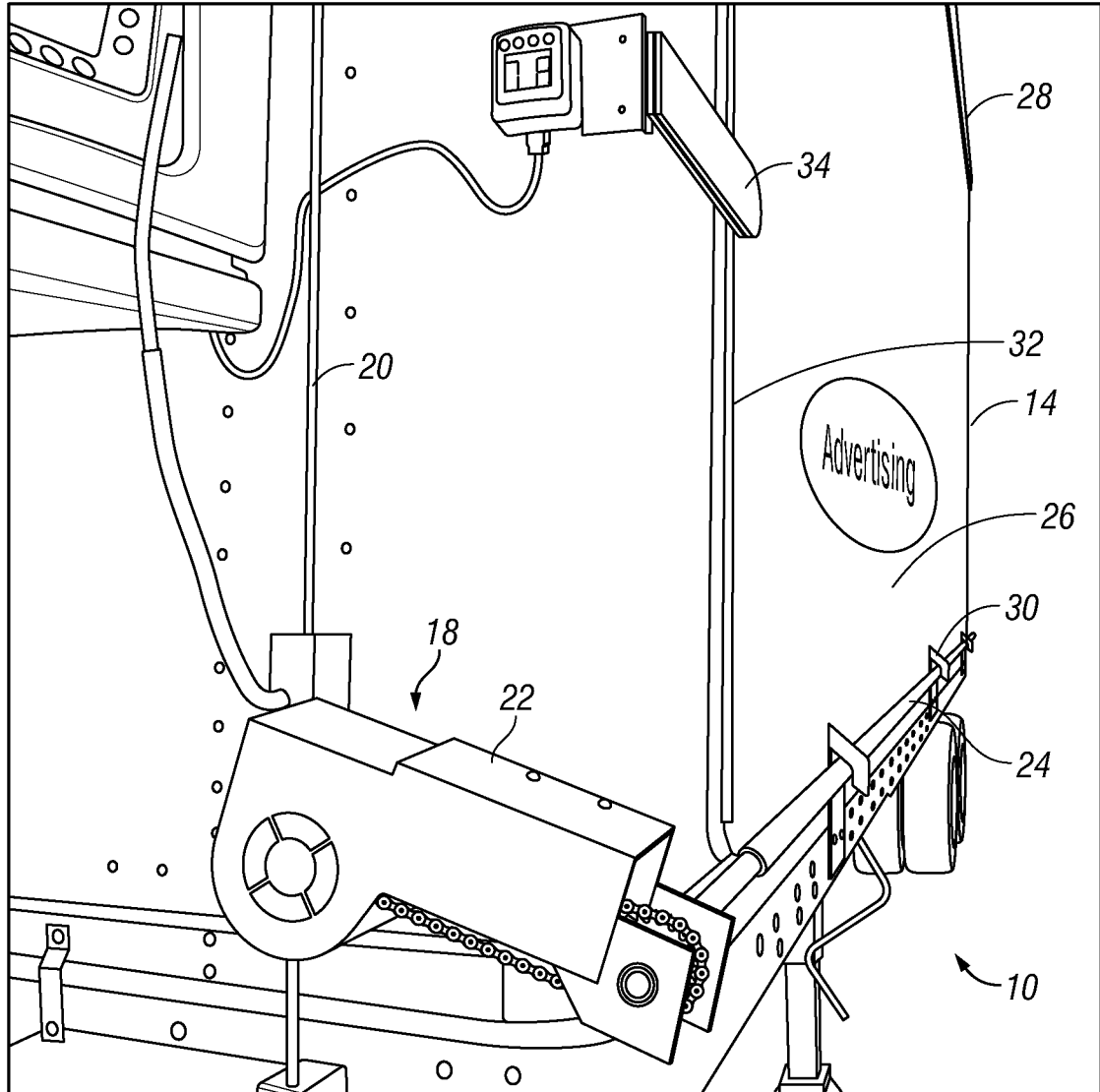
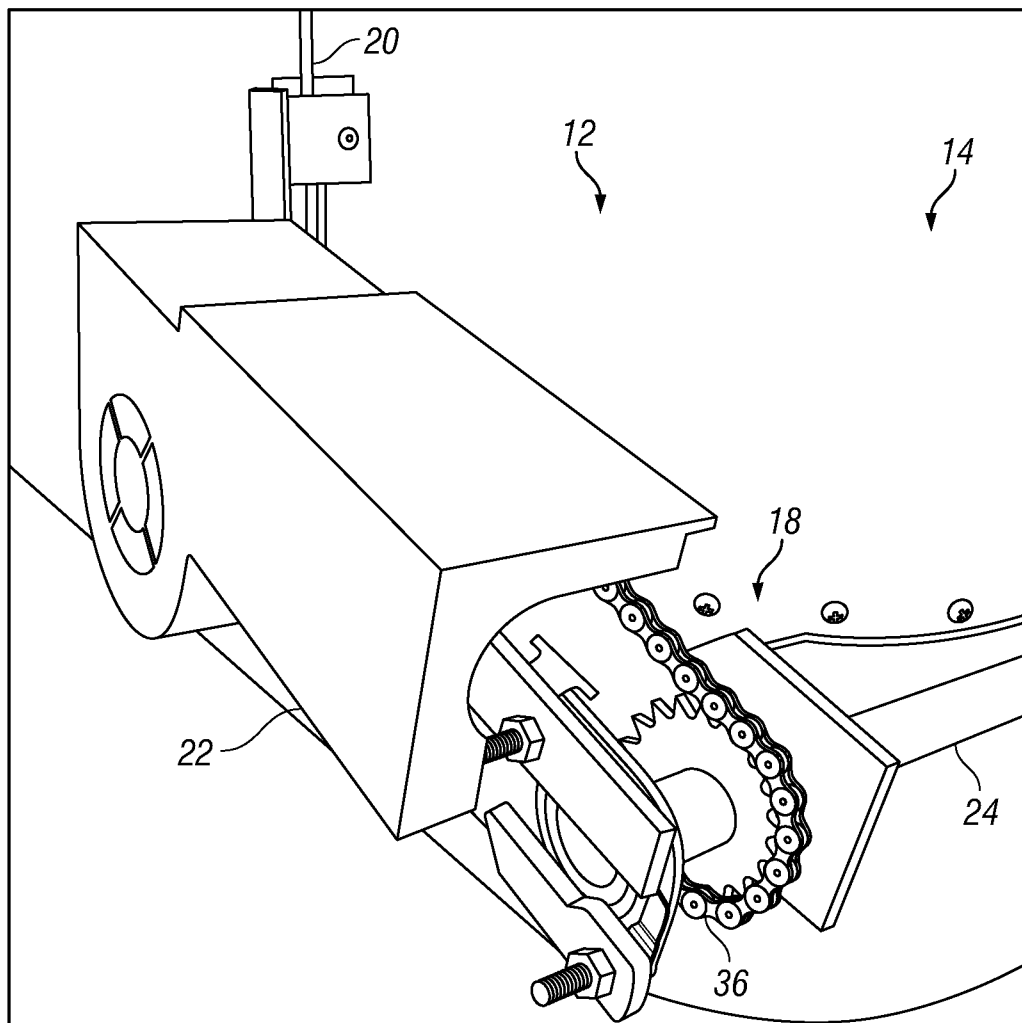
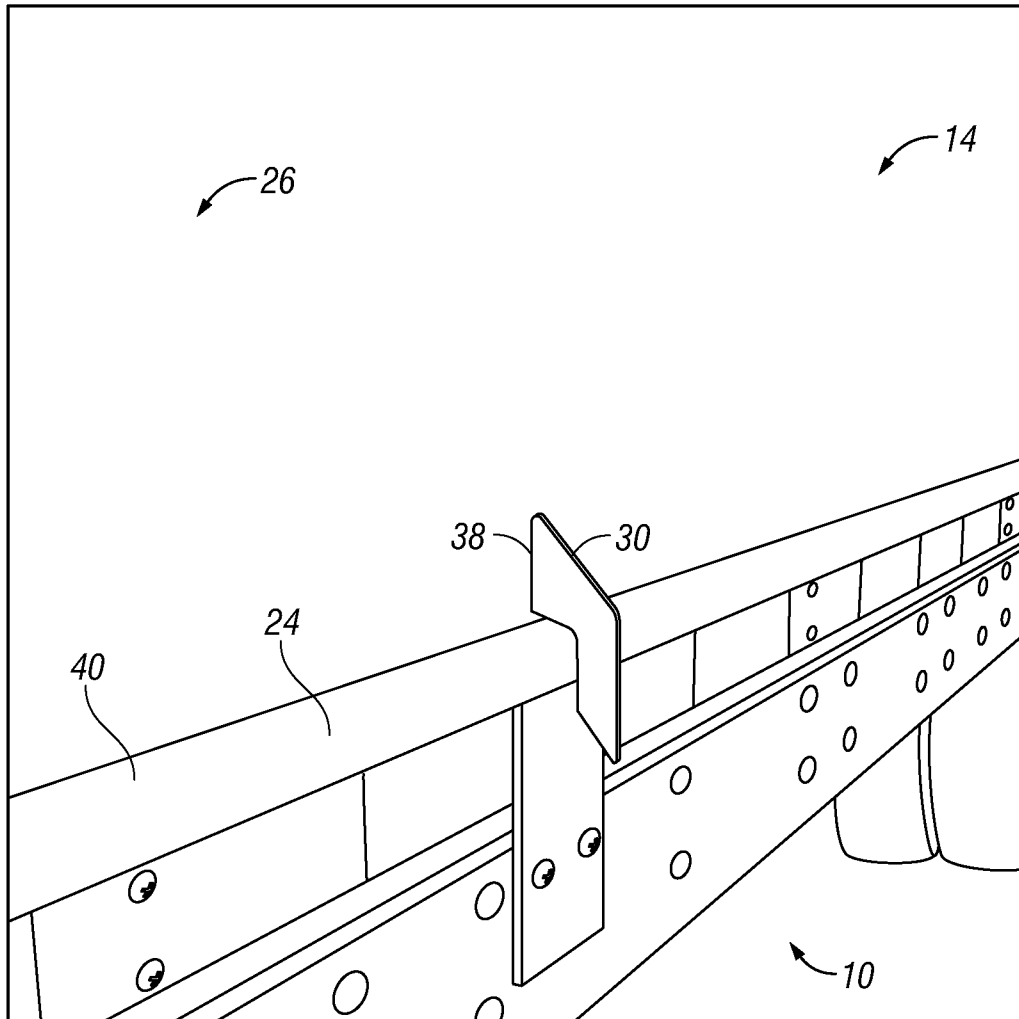
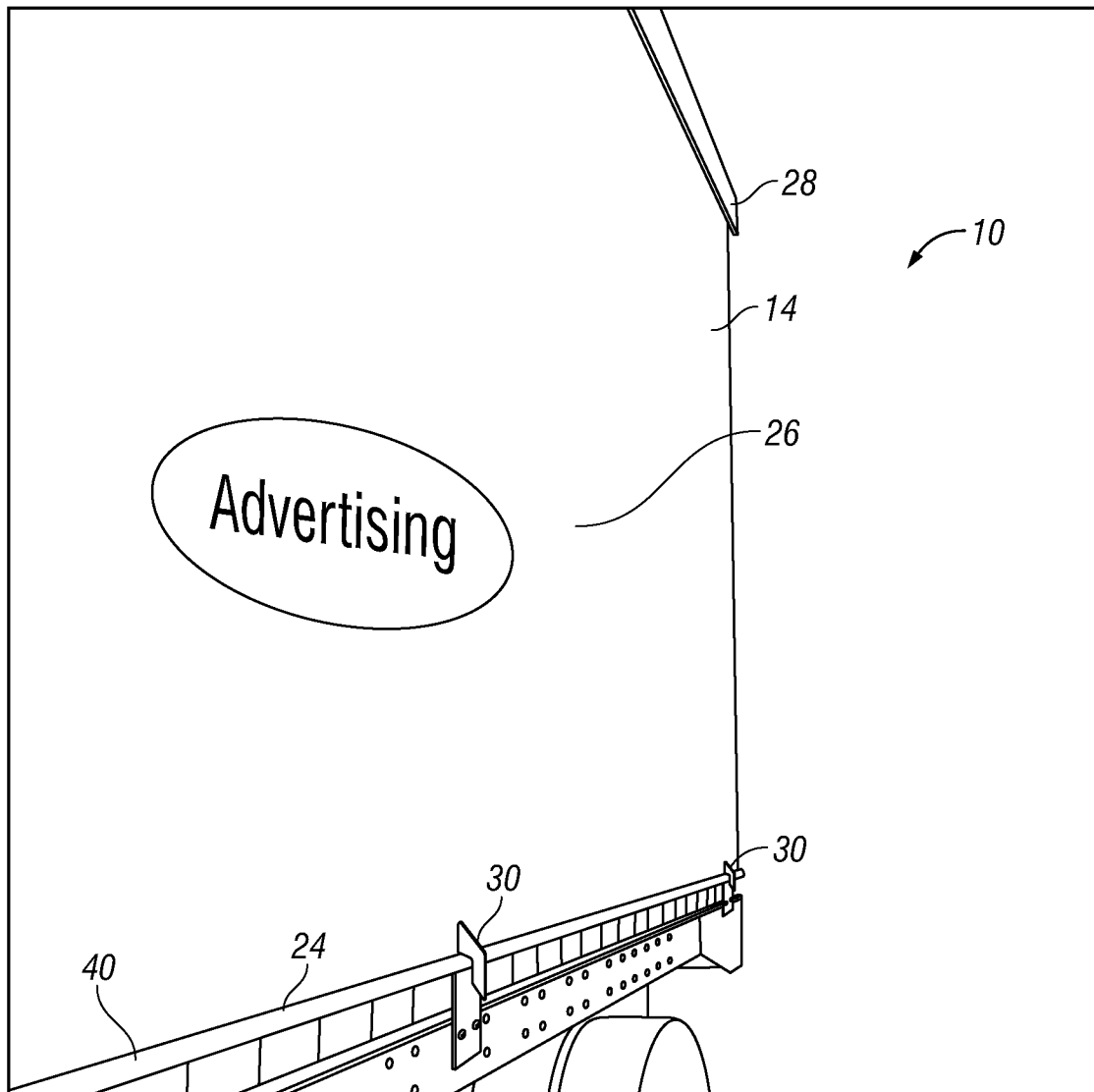


FIG. 8

9/11**FIG. 9**

10/11**FIG. 10**

11/11**FIG. 11**

