United States Patent	12385304
Kind Code	B2
Date of Patent	August 12, 2025
Inventor(s)	Sytnyk; Yuliya et al.

Rotatable suspension rail background system with multiple panels

Abstract

A rotatable suspension rail background system with multiple panels is an apparatus that maximizes the amount of background options in a studio area in an indoor or outdoor area for a photoshoot or video shoot. The apparatus includes track system and at least one background assembly. The track system defines a path for each of the plurality of background assemblies and guides each of the at least one background assembly across the studio area. The track system includes an upper main rail, an upper supplementary rail, and an upper raceway. The at least one background assembly provides various visual backgrounds for a photograph or video. More specifically, the apparatus further includes a first background sheet fixed across a first panel face of a support panel of the at least one background assembly. The apparatus further includes a second background sheet fixed across a second panel face of the support panel.

Inventors: **Sytnyk; Yuliya (North Vancouver, CA), Frolova; Maryna (North Vancouver, CA)**

Applicant: **Sytnyk; Yuliya** (North Vancouver, CA); **Frolova; Maryna** (North Vancouver, CA)

Family ID: **1000008750492**

Appl. No.: **17/737891**

Filed: **May 05, 2022**

Prior Publication Data

Document Identifier	Publication Date
US 20230050471 A1	Feb. 16, 2023

Related U.S. Application Data

us-provisional-application US 63231671 20210810

Publication Classification

Int. Cl.: **E05D15/06** (20060101); **E04B2/82** (20060101)

U.S. Cl.:

CPC **E05D15/063** (20130101); **E04B2/827** (20130101);

Field of Classification Search

CPC: E05D (15/063); E05D (15/26); E05D (15/0652); E05D (15/0604); E04B (2/827); E05Y (2201/64); E05Y (2201/684); E05Y (2900/142); A63J (1/02); A63J (1/028); G03B (15/10); G03B (15/06); E06B (9/0638)

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Primary Examiner: Mintz; Rodney

Background/Summary

(1) The current application claims a priority to the U.S. Provisional Patent application Ser. No. 63/231,671 filed on Aug. 10, 2021.

FIELD OF THE INVENTION
(1) The present invention generally relates to photography equipment. More specifically, the present invention is a rotatable suspension rail background system with multiple panels.
BACKGROUND OF THE INVENTION
(2) Studios for a photoshoot or video shoot typically require plenty of equipment and accessories to achieve a desired look. In order to accommodate multiple clients and complete multiple projects, even more equipment and accessories are necessary as well as the time needed to adjust the studio in between shoots. During transition between shoots or takes between shoots, the chances of an accident or damage of the studio increases greatly.
(3) It is therefore an objective of the present invention to increase the speed and ease of the installation and dismantling for a current setup of a studio. Moreover, the present invention may be permanently integrated into a studio while allowing multiple backgrounds to be interchanged. The present invention may also be portable and assembled in another studio area which may be indoors or outdoors.

Description

BRIEF DESCRIPTION OF THE DRAWINGS
(1) FIG. **1** is a front-top perspective view of a preferred embodiment of the present invention.
(2) FIG. **2** is a rear-bottom perspective view of the preferred embodiment of the present invention with a plurality of rollerballs for a wheel system.
(3) FIG. **3** is a front-bottom perspective view of the present invention with a first castor wheel and a second castor wheel for the wheel system.
(4) FIG. **4** is a front-top perspective magnified view of an upper roller guide of the present invention.
(5) FIG. **5** is a front-top exploded view of at least one background assembly of the present invention.
(6) FIG. **6** is a rear-bottom exploded view of at least one background assembly of the present invention.
(7) FIG. **7** is a front-top perspective view of a preferred embodiment of the present invention with an arbitrary background assembly and a subsequent background assembly.
(8) FIG. **8** is a front-top perspective view of a preferred embodiment of the present invention with the arbitrary background assembly, the subsequent background assembly, and a previous background assembly.
(9) FIG. **9** is a perspective view of the present invention with a first retractable handle.
(10) FIG. **10** is a perspective view of the present invention with a second retractable handle.
DETAILED DESCRIPTIONS OF THE INVENTION
(11) All illustrations of the drawings are for the purpose of describing selected versions of the present invention and are not intended to limit the scope of the present invention.
(12) The present invention is a rotatable suspension rail background system with multiple panels. The present invention is a compact and modular system that can be installed into an existing studio

or transported to various destinations and readily assembled. The present invention facilitates the interchanging of backgrounds during a photoshoot or video shoot. More specifically, the present invention provides the convenience and versatility that enhances the overall experience of the photoshoot or video shoot for the photographer or videographers, the technicians, and the models or cast. In order for the present invention to provide multiple backgrounds that are quickly and securely interchanged, the present invention comprises a track system **1** and at least one background assembly **20**, seen in FIG. **1**, FIG. **2**, FIG. **4**, FIG. **7**, and FIG. **8**. The track system **1** defines a path for the at least one background assembly **20** to slide across a designated studio area. The studio area may be a room or area indoors or an area outdoors. Furthermore, the track system **1** may be supported by the walls of a room or a portable, modular frame that may be assembled indoors or outdoors. In order for the track system **1** to guide the at least one background assembly **20**, the track system **1** comprises an upper main rail **2**, an upper supplementary rail **5**, and an upper raceway **6**. The upper main rail **2** and the upper supplementary rail **5**, together, define the path for the at least one background assembly **20** into and out of the focus of a camera. More specifically, the upper main rail **2** is meant for storage or transportation, whereas the supplementary rail is preferably utilized as the chosen background for the photo or video. It is understood that the at least one background assembly **20** may be positioned along either the upper main rail **2** or the upper supplementary rail **5** as needed. The upper raceway **6** serves as a track along the upper main rail **2** and the upper supplementary rail **5**. The at least one background assembly **20** provides a variety of background options for a photo or video that are not currently nor readily available in the studio area. The at least one background assembly **20** each comprises an upper roller guide **21** and a support panel **24**. The upper roller guide **21** connects and glides the support panel **24** along the upper raceway **6**. The upper roller guide **21** comprises an upper fixed guide end **22** and an upper free guide end **23**. The upper fixed guide end **22** attaches the upper roller guide **21** with the track system **1**. The upper free guide end **23** attaches the upper roller guide **21** with the support panel **24**. The support panel **24** provides specific visual backgrounds that defines an environment for a photo or video. The support panel **24** comprises an upper panel edge **25** and a lower panel edge **26**. The upper panel edge **25** is oriented towards the upper raceway **6**, and the lower panel edge **26** is oriented towards the ground. In alternate embodiments of the present invention, the at least one background assembly **20** may further comprise at least one structural piece that provides additional texture for the support panel **24**. More specifically, the at least one structural piece is a three-dimensional fixture that enhances the support panel **24** and consequently the background of the photo or video. In further alternate embodiments of the present invention, the at least one background assembly **20** may further comprise at least one aesthetic hole that serves as a walkway, a door entrance, or a window.

(13) The overall configuration of the aforementioned components provides convenience and versatility while maintaining reliability for a studio area. In order to position a support panel **24** in a specific position within the studio area, the upper supplementary rail **5** is laterally connected with the upper main rail **2**, seen in FIG. **1**, FIG. **2**, FIG. **7**, and FIG. **8**. In the preferred embodiment of the present invention, the upper supplementary rail **5** is positioned perpendicular with the upper main rail **2**. However, it is understood that in various embodiments of the present invention, the upper supplementary rail **5** may be positioned at various angles with the upper main rail **2**. The at least one background assembly **20** remains connected with the track system **1** while traversing along the track system **1** as the upper raceway **6** is integrated into and along the upper main rail **2** and the upper supplementary rail **5**. The support panel **24** is offset from the upper main rail **2** and the upper supplementary rail **5**, thereby preserving the structural integrity of the support panel **24** as the upper fixed guide end **22** is positioned opposite the upper free guide end about the upper roller guide **21**. Moreover, the upper fixed guide end **22** is movably engaged along the upper raceway **6**. A height for the support panel **24** is defined as the upper panel edge **25** is positioned opposite the lower panel edge **26** across the support panel **24**. The height of the support panel **24** preferably

encompasses the entire background of a photo or video. In order to further enhance the versatility of the present invention, the upper panel edge **25** is rotatably and removably attached with the upper free guide end **23**. This allows each support panel **24** to be removed from and attached with a corresponding track system **1** while being able to be rotated while attached with the track system **1**.

(14) In order to maximize the options for a background of a photoshoot or video shoot, the at least one background assembly **20** may each further comprise a first background sheet **41** and a second background sheet **42**, seen in FIG. **1**, FIG. **2**, FIG. **3**, FIG. **4**, FIG. **5**, FIG. **6**, FIG. **7**, FIG. **8**, FIG. **9**, and FIG. **10**. Moreover, the support panel **24** may comprise a first panel face **27** and a second panel face **28**. The first background sheet **41** features a distinct visual background, and the second background sheet **42** features another distinct visual background. The first panel face **27** and the second panel face **28** are the opposing elongated areas that uphold the first background sheet **41** and the second background sheet **42**, respectively. A thickness of the support panel **24** is defined as the first panel face **27** is positioned opposite the second panel face **28** about the support panel **24**. More specifically, the first panel face **27** and the second panel face **28** are positioned in between the upper panel edge **25** and the lower panel edge **26**. The support panel **24** provides two options for a background as the first background sheet **41** is fixed across the first panel face **27**. Likewise, the second background sheet **42** is fixed across the second panel face **28**.

(15) In order for a user to easily maneuver the support panel **24** along the track system **1**, the at least one background assembly **20** may each further comprise a first retractable handle **43** and a second retractable handle **44**, seen in FIG. **9** and FIG. **10**. Furthermore, the support panel **24** may comprise a first lateral edge **29** and a second lateral edge **30**. The first retractable handle **43** provides a maneuverable grip for the user along a side of the support panel **24**. Conversely, the second retractable handle **44** provides a maneuverable grip for the user along the opposite side of the support panel **24**. Moreover, the first retractable handle **43** and the second retractable handle **44** preserves the integrity of the support panel **24**, and consequently the first background sheet **41** and the second background sheet **42**, respectively, as the user may maneuver the support panel **24** without directly touching the first background sheet **41** and the second background sheet **42**. The first retractable handle **43** and the second retractable handle **44** may also remain concealed during the actual capturing of a photo or a video. The first lateral edge **29** and the second lateral edge **30** are the sides of the support panel **24** that correspond to the thickness of the support panel **24**. More specifically, the first lateral edge **29** is positioned opposite the second lateral edge **30** across the support panel **24**. Furthermore, the first lateral edge **29** and the second lateral edge **30** are positioned in between the upper panel edge **25** and the lower panel edge **26**. The first retractable handle **43** is easily accessible as the first retractable handle **43** is fixed in adjacent with the first lateral edge **29**. Likewise, the second retractable handle **44** is easily accessible from the opposite side as the second retractable handle **44** is fixed adjacent the second lateral edge **30**. It is understood that the first retractable handle **43** and the second retractable handle **44** comprise the necessary mechanisms that are integrated into the first lateral edge **29** and the second lateral edge **30**, respectively, that allows the first retractable handle **43** and the second retractable handle **44** to be readily extended from within the support panel **24** and retracted back into the support panel **24**.

(16) In order for the support panel **24** to smoothly traverse across the ground, the at least one background assembly **20** may each further comprise a wheel system **31**, seen in FIG. **2**, FIG. **3**, and FIG. **6**. The wheel system **31** reinforces a smooth transition from an initial position for the support panel **24** to another position for the support panel **24**. Moreover, the wheel system **31** relieves the weight of the support panel **24** against the upper roller guide **21**. The wheel system **31** is integrated into the lower panel edge **26**, thereby positioning the wheel system **31** directly against the ground. In the preferred embodiment of the present invention, the wheel system **31** comprises a plurality of rollerballs **32**, seen in FIG. **2** and FIG. **6**. The plurality of rollerballs **32** glide across the ground as each of the plurality of rollerballs **32** is rotatable mounted into the lower panel edge **26**. The weight of the support panel **24** is evenly upheld by the plurality of rollerballs **32**, the plurality of rollerballs

32 is positioned offset from each other along the lower panel edge **26**.
(17) In alternate embodiments of the present invention, the wheel system **31** comprises a first castor wheel **33** and a second castor wheel **34**, seen in FIG. **3**. The support panel **24** comprises a first lateral edge **29** and a second lateral edge **30**. In order for the view of the first background sheet **41** and the second background sheet **42** to remain uninhibited by the first castor wheel **33** and the second castor wheel **34**, the first castor wheel **33** is mounted onto the first lateral edge **29**, and the second castor wheel **34** is mounted onto the second lateral edge **30**. More specifically, the first castor wheel **33** and the second castor wheel **34** directly roll across the ground as the first castor wheel **33** and the second castor wheel **34** are positioned adjacent with the lower panel edge **26**.
(18) In order to provide a smooth transition for the support panel **24** between the upper main rail **2** and the upper supplementary rail **5** while preserving the structural integrity of the upper main rail **2** and the upper supplementary rail **5**, the track system **1** may further comprise an upper annular support **7**, an upper main bearing **8**, and an upper switch rail **9**, seen in FIG. **1**, FIG. **2**, FIG. **7**, and FIG. **8**. The upper main rail **2** may comprise a first upper rail segment **3** and a second upper rail segment **4**. The upper annular support **7** mounts the first upper rail segment **3** and the second upper rail segment **4** with the ceiling or comparable structure. The upper main bearing **8** rotates the upper switch rail **9** between the first upper rail segment **3**, the second upper rail segment **4**, and the upper supplementary rail **5**. The upper switch rail **9** either connects the first upper rail segment **3** with the second upper rail segment **4** or connects to the upper supplementary rail **5**. Moreover, the upper switch rail **9** serves as a temporary position for the support panel **24** while transitioning from the upper main rail **2** to the upper supplementary rail **5** or the upper supplementary rail **5** to the upper main rail **2**. The support panel **24** remains positioned along the upper switch rail **9** until the upper switch rail **9** is aligned in between the first upper rail segment **3** and the second upper rail segment **4** or aligned with the upper supplementary rail **5**. The support panel **24** is then slid with the upper roller guide **21** into the adjacent rail.
(19) The overall configuration of the aforementioned components, seen in FIG. **1**, FIG. **2**, FIG. **7**, and FIG. **8**, allows the upper switch rail **9** to be rotated as needed to direct a selected support panel **24**. In order to quickly position the upper switch rail **9** with the upper main rail **2** and the upper supplementary rail **5**, the upper annular support **7** is laterally fixed with the first upper rail segment **3**, the second upper rail segment **4**, and the upper supplementary rail **5**, opposite the upper raceway **6**. This arrangement also allows the upper annular support **7** to be mounted into the ceiling or comparable structure. The first upper rail segment **3**, the second upper rail segment **4**, and the upper supplementary rail **5** are positioned about the upper annular support **7**, thereby allowing the upper switch rail **9** to freely rotate within the upper annular support **7**. In order for the upper main rail **2** to be continuous, the first upper rail segment **3** and the second upper rail segment **4** are positioned collinear and opposite to each other about the upper annular support **7**. The upper switch rail **9** remains connected with the track system **1** while rotating within the upper annular support **7** as the upper main bearing **8** is rotatably mounted within the upper annular support **7** and is laterally fixed with the upper switch rail **9**. In order for the upper switch rail **9** to provide a continuous path for the upper roller guide **21** between the upper main rail **2** and the upper supplementary rail **5**, the upper switch rail **9** is diametrically positioned across the upper main bearing **8**. In the preferred embodiment of the present invention, the track system **1** further comprises an upper crank **10**. The upper crank **10** provides a maneuverable grip for a user to rotate the upper main bearing **8**. Moreover, the upper crank **10** serves as an extension for the user to be able to maneuver the upper main bearing **8** without having to directly contact the upper main bearing **8**. Furthermore, the upper crank **10** enhances the safety of the present invention by keeping the fingers of the user away from the upper annular support **7** and the upper main bearing **8**. In order for the upper main bearing **8** to move simultaneously with the upper crank **10**, the upper crank **10** is torsionally connected to the upper main bearing **8**.
(20) In order to define a corner, the at least one background assembly **20** may comprise an arbitrary

background assembly **38** and a subsequent background assembly **39**, seen in FIG. **7**. Moreover, the support panel **24** may comprise a first lateral edge **29** and a second lateral edge **30**. The first lateral edge **29** is positioned opposite the second lateral edge **30**. Furthermore, the first lateral edge **29** and the second lateral edge **30** are positioned in between the upper panel edge **25** and the lower panel edge **26**. While in a storage configuration or in an operational configuration, the second lateral edge **30** of the arbitrary background assembly **38** is positioned adjacent and along the first lateral edge **29** of the subsequent background assembly **39**. The at least one background assembly **20** is in the storage configuration while the support panel **24** of the arbitrary background assembly **38** and the support panel **24** of the subsequent background assembly **39** are pressed against each other. Conversely, the at least one background assembly **20** is in the operational configuration while the support panel **24** of the arbitrary background assembly **38** and the support panel **24** of the subsequent background assembly **39** are offset from each other. An angle between the arbitrary background assembly **38** and the subsequent background assembly **39** is defined as desired as the second lateral edge **30** of the arbitrary background assembly **38** is hingedly attached with the first lateral edge **29** of the subsequent background assembly **39**.

(21) In order to define an appearance of a room, the at least one background assembly **20** may further comprise a previous background assembly **40**, seen in FIG. **8**. While in the storage configuration or in the operational configuration, the second lateral edge **30** of the previous background assembly **40** is positioned adjacent and along the first lateral edge **29** of the arbitrary background assembly **38**. In order for a second corner to be defined thereby creating the appearance of a room, the second lateral edge **30** of the previous background assembly **40** is hingedly attached with the first lateral edge **29** of the arbitrary background assembly **38**.

(22) Although the invention has been explained in relation to its preferred embodiment, it is to be understood that many other possible modifications and variations can be made without departing from the spirit and scope of the invention as hereinafter claimed.

Claims

1. A rotatable suspension rail background system with multiple panels comprising: a track system; a background assembly; the track system comprising an upper main rail, an upper supplementary rail, and an upper raceway; each comprising an upper roller guide, a support panel, a first background sheet, and a second background sheet; the upper roller guide comprising an upper fixed guide end and an upper free guide end; the support panel comprising an upper panel edge, a lower panel edge, a first panel face, and a second panel face; the background assembly being slidably mounted to the track system; the upper supplementary rail being laterally connected with the upper main rail; the upper supplementary rail being positioned perpendicular with the upper main rail; the upper raceway being integrated into and along the upper main rail and the upper supplementary rail; the upper fixed guide end being positioned opposite the upper free guide end about the upper roller guide; the upper fixed guide end being movably engaged along the upper raceway; the upper panel edge being positioned opposite the lower panel edge across the support panel; the upper panel edge being removably and rotatably attached with the upper free guide end; the first panel face being positioned opposite the second panel face about the support panel; the first panel face and the second panel face being positioned in between the upper panel edge and the lower panel edge; the first background sheet being coextensively fixed across the first panel face; and the second background sheet being coextensively fixed across the second panel face.

2. The rotatable suspension rail background system with multiple panels as claimed in claim 1 comprising: the background assembly further comprising a first retractable handle and a second retractable handle; the support panel further comprising a first lateral edge and a second lateral edge; the first lateral edge being positioned opposite the second lateral edge across the support panel; the first lateral edge and the second lateral edge being positioned in between the upper panel

edge and the lower panel edge; the first retractable handle being fixed adjacent the first lateral edge; and the second retractable handle being fixed adjacent the second lateral edge.
3. The rotatable suspension rail background system with multiple panels as claimed in claim 1 comprising: the track system further comprising an upper annular support, an upper main bearing, an upper switch rail, and an upper crank; the upper main rail comprising a first upper rail segment and a second upper rail segment; the upper annular support being laterally fixed with the first upper rail segment, the second upper rail segment, and the upper supplementary rail, opposite the upper raceway; the first upper rail segment, the second upper rail segment, and the upper supplement rail being positioned about the upper annular support; the first upper rail segment and the second upper rail segment being positioned collinear to each other; the first upper rail segment and the second upper rail segment being positioned opposite to each other about the upper annular support; the upper main bearing being rotatably mounted within the upper annular support; the upper main bearing being laterally fixed with the upper switch rail; the upper switch rail being diametrically positioned across the upper main bearing; and the upper crank being torsionally connected to the upper main bearing.
4. The rotatable suspension rail background system with multiple panels as claimed in claim 1 comprising: the background assembly further comprising a wheel system; and the wheel system being integrated into the lower panel edge.
5. The rotatable suspension rail background system with multiple panels as claimed in claim 4 comprising: the wheel system comprising a plurality of rollerballs; each of the plurality of rollerballs being rotatably mounted into the lower panel edge; and the plurality of rollerballs being positioned offset from each other along the lower panel edge.
6. The rotatable suspension rail background system with multiple panels as claimed in claim 4 comprising: the wheel system comprising a first castor wheel and a second castor wheel; the support panel further comprising a first lateral edge and a second lateral edge; the first lateral edge being positioned opposite the second lateral edge across the support panel; the first lateral edge and the second lateral edge being positioned in between the upper panel edge and the lower panel edge; the first castor wheel being mounted onto the first lateral edge; the second castor wheel being mounted onto the second lateral edge; the first castor wheel and the second castor wheel being positioned adjacent with the lower panel edge.
7. A rotatable suspension rail background system with multiple panels comprising: a track system; a plurality of background assemblies; the track system comprising an upper main rail, an upper supplementary rail, and an upper raceway; each of the plurality of background assemblies comprising an upper roller guide, a support panel, a first background sheet, and a second background sheet; the upper roller guide comprising an upper fixed guide end and an upper free guide end; the support panel comprising an upper panel edge, a lower panel edge, a first panel face, and a second panel face; each of the plurality of background assemblies being slidably mounted to the track system; the upper supplementary rail being laterally connected with the upper main rail; the upper supplementary rail being positioned perpendicular with the upper main rail; the upper raceway being integrated into and along the upper main rail and the upper supplementary rail; the upper fixed guide end being positioned opposite the upper free guide end about the upper roller guide; the upper fixed guide end for each of the plurality of background assemblies being movably engaged along the upper raceway; the upper panel edge being positioned opposite the lower panel edge across the support panel; the upper panel edge being removably and rotatably attached with the upper free guide end; the first panel face being positioned opposite the second panel face about the support panel; the first panel face and the second panel face being positioned in between the upper panel edge and the lower panel edge; the first background sheet being coextensively fixed across the first panel face; and the second background sheet being coextensively fixed across the second panel face.
8. The rotatable suspension rail background system with multiple panels as claimed in claim 7

comprising: each of the plurality of background assemblies further comprising a first retractable handle and a second retractable handle; the support panel further comprising a first lateral edge and a second lateral edge; the first lateral edge being positioned opposite the second lateral edge across the support panel; the first lateral edge and the second lateral edge being positioned in between the upper panel edge and the lower panel edge; the first retractable handle being fixed adjacent the first lateral edge; and the second retractable handle being fixed adjacent the second lateral edge.

9. The rotatable suspension rail background system with multiple panels as claimed in claim 7 comprising: the track system further comprising an upper annular support, an upper main bearing, and an upper switch rail; the upper main rail comprising a first upper rail segment and a second upper rail segment; the upper annular support being laterally fixed with the first upper rail segment, the second upper rail segment, and the upper supplementary rail, opposite the upper raceway; the first upper rail segment, the second upper rail segment, and the upper supplement rail being positioned about the upper annular support; the first upper rail segment and the second upper rail segment being positioned collinear to each other; the first upper rail segment and the second upper rail segment being positioned opposite to each other about the upper annular support; the upper main bearing being rotatably mounted within the upper annular support; the upper main bearing being laterally fixed with the upper switch rail; and the upper switch rail being diametrically positioned across the upper main bearing.

10. The rotatable suspension rail background system with multiple panels as claimed in claim 9 comprising: the track system further comprising an upper crank; and the upper crank being torsionally connected to the upper main bearing.

11. The rotatable suspension rail background system with multiple panels as claimed in claim 7 comprising: the plurality of background assemblies comprising a first background assembly and a second background assembly; the support panel further comprising a first lateral edge and a second lateral edge; the first lateral edge being positioned opposite the second lateral edge across the support panel; the first lateral edge and the second lateral edge being positioned in between the upper panel edge and the lower panel edge; the second lateral edge of the first background assembly being positioned adjacent and along the first lateral edge of the second background assembly; and the second lateral edge of the first background assembly being hingedly attached with the first lateral edge of the second background assembly.

12. The rotatable suspension rail background system with multiple panels as claimed in claim 11 comprising: the plurality of background assemblies further comprising a third background assembly; the second lateral edge of the third background assembly being positioned adjacent and along the first lateral edge of the first background assembly; and the second lateral edge of the third background assembly being hingedly attached with the first lateral edge of the first background assembly.

13. The rotatable suspension rail background system with multiple panels as claimed in claim 7 comprising: each of the plurality of background assemblies further comprising a wheel system; and the wheel system being integrated into the lower panel edge.

14. The rotatable suspension rail background system with multiple panels as claimed in claim 13 comprising: the wheel system comprising a plurality of rollerballs; each of the plurality of rollerballs being rotatably mounted into the lower panel edge; and the plurality of rollerballs being positioned offset from each other along the lower panel edge.

15. The rotatable suspension rail background system with multiple panels as claimed in claim 13 comprising: the wheel system comprising a first castor wheel and a second castor wheel; the support panel further comprising a first lateral edge and a second lateral edge; the first lateral edge being positioned opposite the second lateral edge across the support panel; the first lateral edge and the second lateral edge being positioned in between the upper panel edge and the lower panel edge; the first castor wheel being mounted onto the first lateral edge; the second castor wheel being

mounted onto the second lateral edge; the first castor wheel and the second castor wheel being positioned adjacent with the lower panel edge.