

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

Cross-Reference to Related Application

[0001] The present application claims the filing benefit of U.S. Provisional Application Serial No. 63/381,818, filed November 1, 2022, the disclosure of which is incorporated herein by reference in its entirety.

Technical Field

[0002] The present invention relates generally to recreational slides and, more particularly, to a slide system including a ride vehicle for use with a recreational slide having a slide surface provided with a dry lubricant material.

Background

[0003] Recreational slides, such as dry slides and water slides, provide a popular form of entertainment activity. In that regard, conventional dry or water slides include a slide surface down which a rider descends (i.e., slides) for entertainment. The speed at which the rider descends down the slide is often determinative of the level of entertainment experienced by the rider. For most riders, a fast slide speed (i.e., a fast rate of descent down the slide) is more thrilling compared to a slow slide speed (i.e., a slow rate of descent down the slide), and therefore is more desirable. To this end, maintaining a low coefficient of friction between the rider or a ride vehicle that supports the rider and the slide surface provides for a fast and exciting slide.

[0004] There is a notable difference in slide speed between a water slide and a dry slide. In particular, water slides are faster as a result of water flow down the slide surface, which in some cases can propel the rider down the slide. Further, the water flow lubricates the slide surface which reduces the coefficient of friction between the rider or any ride vehicle being used and the slide surface. To this end, the coefficient of friction between a rider (or ride vehicle) and the slide surface of a water slide may be within a range of between 0.05 to 0.2, and is typically about 0.1.

[0005] A dry slide is considered to be any slide that is free of any fluid or wet lubricant flowing down the slide surface and between a rider or the ride vehicle and the slide surface. A dry slide, as a result of not having a flow of lubricant down the slide surface, typically cannot generate the same slide speed as a same-sized water slide.

The coefficient of friction between a rider (or ride vehicle) and the slide surface of a typical dry slide is often within a range of between 0.15 to 0.3, and is typically about 0.25. Furthermore, dry slides are often indoor installations so that they can be used year-round. To that end, height restrictions imposed by the ceiling of a building in which the slide is installed necessitate slides having a shorter height, which can further limit the slide speed of a rider.

[0006] Thus, there is a need for a dry recreational slide system that can achieve slide speeds equivalent to, or better than, a water slide for the same or similar sized slide. In particular, it is desirable to achieve improved slide speeds for dry slides without the use of a flow of fluid down the slide surface that flows between the rider and/or the ride vehicle.

Summary

[0007] According to an embodiment to the present invention, a recreational slide system is provided. The recreational slide system includes a slide and a ride vehicle configured to support a rider down the slide. The slide includes a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide. The ride vehicle includes a fabric layer that forms a top surface configured to contact the rider and a mesh layer that forms a bottom surface configured to contact the slide surface. The coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface may be within a range of between about 0.03 to about 0.2, and particularly within a range of between about 0.05 to about 0.12. In one aspect, the coefficient of friction is in terms of kinetic coefficient of friction.

[0008] According to one aspect of the present invention, the slide surface may include a dry lubricant material. For example, the dry lubricant material may comprise a dry lubricant coating over the slide surface. In one aspect, the dry lubricant coating includes a thickness that is within a range of between about 1 micron to about 5 micron. According to another aspect of the present invention, the slide body includes a base wall and a pair of sidewalls and the dry lubricant coating may cover a sliding surface of the base wall. The dry lubricant coating may further cover at least a portion of a sliding surface of the pair of sidewalls.

[0009] According to yet another aspect of the present invention, the dry lubricant material may include a resin, a lubricant, a thermal conductor, and a hardener. In

particular, the dry lubricant material may include 20% to 30% by weight of the resin, 30% to 50% by weight of the lubricant, 1% to 5% by weight of the thermal conductor, and 20% to 30% by weight of the hardener. For instance, the resin may be a silicon-based epoxy resin. Additionally, the lubricant may be polytetrafluoroethylene. In one aspect, the thermal conductor may be copper. In another aspect, the hardener may be an anhydride-based or an amine-based catalyst.

[0010] According to one aspect of the present invention, the mesh layer of the ride vehicle may include a weave of threads formed of monofilament synthetic fibers. For instance, the monofilament synthetic fibers may be a polyamide monofilament structure such as Nylon. In one aspect, the weave of threads may include a plurality of weft threads each having a thread diameter within a range of between 0.1mm to 0.6mm and a plurality of warp threads each having a thread diameter within a range of between about 0.1mm to about 0.6mm. In yet another aspect, the plurality of warp threads may extend along the ride vehicle in a lengthwise direction and the plurality of weft threads may extend along the ride vehicle in a widthwise direction. In one aspect, the mesh layer may include a plurality of interstitial openings that define an open area of the mesh layer. The open area of the mesh layer may be within a range of between about 35% to about 50%.

[0011] According to another embodiment of the present invention, a non-wet lubricated recreational slide is provided. The recreational slide includes a slide body with a slide surface that extends between a top entrance of the slide and a bottom exit of the slide. The slide surface includes a dry lubricant coating that comprises a resin, a lubricant, a thermal conductor, and a hardener. According to one aspect of the present invention, the dry lubricant coating includes 20% to 30% by weight of the resin, 30% to 50% by weight of the lubricant, 1% to 5% by weight of the thermal conductor, and 20% to 30% by weight of the hardener. According to another aspect, the slide body includes a base wall and a pair of sidewalls, and the dry lubricant coating may cover a sliding surface of the base wall. In yet another aspect, the dry lubricant coating may cover at least a portion of a sliding surface of the pair of sidewalls.

[0012] According to another embodiment of the present invention, a ride vehicle configured to support a rider down a non-wet lubricated recreational slide is provided. The ride vehicle includes an elongate body that extends between a first end and an opposite second end. The body includes a central core positioned

between a fabric layer that forms a top surface of the ride vehicle that is configured to contact the rider and a woven mesh layer that forms a bottom surface of the ride vehicle that is configured to contact the non-wet lubricated recreational slide. The ride vehicle further includes a pair of handles attached to the fabric layer adjacent the first end of the ride vehicle.

[0013] According to one aspect of the present invention, the woven mesh layer includes a weave of threads formed of monofilament synthetic fibers. For example, the monofilament synthetic fibers may be a polyamide monofilament structure such as Nylon, and preferably Nylon 6 (polycaprolactam). In another aspect, the mesh layer includes a plurality of interstitial openings that define an open area of the mesh layer. For example, the open area of the mesh layer may be within a range of between about 35% to about 50%. In yet another aspect, the mesh layer includes a plurality of weft threads each having a thread diameter within a range of between 0.1mm to 0.6mm and a plurality of warp threads each having a thread diameter within a range of between about 0.1mm to about 0.6mm. In one aspect, the central core is surrounded by a fabric liner that is positioned between the central core and the fabric layer and the woven mesh layer.

[0014] Various additional features and advantages of the invention will become more apparent to those of ordinary skill in the art upon review of the following detailed description of one or more illustrative embodiments taken in conjunction with the accompanying drawings.

Brief Description of the Drawings

[0015] The accompanying drawings, which are incorporated in and constitute a part of this specification, illustrate one or more embodiments of the invention and, together with the general description given above and the detailed description given below, serve to describe the one or more embodiments of the invention.

[0016] FIG. 1 is a perspective view of a slide system including a ride vehicle and a dry slide having a slide surface provided with a dry lubricant surface coating over which a rider supported on the ride vehicle is configured to slide according to an embodiment of the present invention.

[0017] FIG. 2A is a cross section taken along line 2-2 of FIG. 1, diagrammatically illustrating details of a dry lubricant coating of the slide surface in accordance with a first embodiment of the invention.

[0018] FIG. 2B is a cross section taken along line 2-2 of FIG. 1, diagrammatically illustrating details of a dry lubricant coating of the slide surface in accordance with a second embodiment of the invention.

[0019] FIG. 2C is a cross section taken along line 2-2 of FIG. 1, diagrammatically illustrating details of a dry lubricant coating of the slide surface in accordance with a third embodiment of the invention.

[0020] FIG. 3 is a perspective view of a ride vehicle having a bottom surface formed of a mesh material according to an embodiment of the present invention.

[0021] FIG. 4 is an enlarged perspective view of a section of the ride vehicle of FIG. 4, illustrating the bottom surface of the ride vehicle.

[0022] FIG. 5 is an enlarged view of a portion "5" of the bottom surface of the ride vehicle shown in FIG. 4, illustrating characteristics of the mesh material.

[0023] FIG. 6 is a chart illustrating a performance simulation of the slide system of FIG. 1.

[0024] FIGS. 7A-7B are views of a body suit formed of the mesh material in accordance with another embodiment of the present invention.

Detailed Description

[0025] Embodiments of the present invention are directed to a slide system that includes a dry recreational slide, otherwise referred to as a non-wet lubricated slide, and a ride vehicle that includes a mesh material configured to be positioned between a rider and a slide surface of the slide for sliding down the slide. In one embodiment, the slide surface of the slide includes a dry lubricant material in the form of a coating that cooperates with the mesh material of the ride vehicle to achieve a low coefficient of friction therebetween. The mesh material may form part of an article of clothing, for example, or the ride vehicle may be configured to support a rider as they descend down the slide. In that regard, as a rider descends down the slide, the mesh material is in contact with the slide surface, and more particularly the dry lubricant material of the slide surface, such that a coefficient of friction at interfaces between surfaces of the mesh material and the slide surface is within a range of between about 0.03 to about 0.2, and particularly within a range of between about 0.05 to about 0.12, depending on factors such as a weight of the rider, for example. As used herein relative to the coefficient of friction, "about" is intended to mean +/- 10%. These and other aspects of the present invention will be described in further detail below.

[0026] As will be understood by a person skilled in the art, the coefficient of friction between the ride vehicle and the slide surface is the ratio of the frictional force between two surfaces to the normal force pressing the surfaces together. That is, Coefficient of Friction (μ) = Force of Friction (F) / Normal Force (N).

The coefficient of friction between the surfaces of the mesh material and the slide surface may be described in terms of both the static and kinetic coefficients of friction.

[0027] Referring now to the figures, FIG. 1 illustrates a slide system 10 including an exemplary non-wet lubricated (i.e., dry lubricated) recreational slide 12 and a ride vehicle 14 configured to be positioned between a rider and surfaces of the slide 12 for sliding down the slide 12. In that regard, the slide 12 includes a slide body 16 that defines a slide surface 18. The slide body 16 may be formed of a fiber-reinforced plastic (FRP), such as fiberglass, for example. However, the slide body 16 may be formed of other suitable materials such as Ultra-High-Molecular-Weight Polyethylene (UHMWPE), High-Density Polyethylene (HDPE), or other type of thermoplastic material, for example. In the embodiment shown, the slide body 16 further includes a dry lubricant material to improve the lubricity of the slide surface 18, as will be described in further detail below. By non-wet lubricated, it is meant that the slide body 16, and more particularly the slide surface 18, is free of any fluid or wet lubricant flowing down the slide surface 18 and between a rider or the ride vehicle 14 and the slide surface 18. To this end, the recreational slide 12 is not a water slide. However, the slide surface 18 may be periodically conditioned with oil, such as silicone oil, for example, as part of on-going maintenance of the recreational slide 12. However, while aspects of the present invention are shown and described in the context of a certain type or configuration of slide, it will be understood that the same inventive concepts, and particularly those related to aspects of the dry lubricant material on the slide surface 18 and the ride vehicle 14, may be implemented with different non-wet lubricated slide designs. To this end, the drawings are not intended to be limiting.

[0028] With continued reference to FIG. 1, the slide 12 includes the slide body 16 which extends between a top entrance 20 of the slide 12 to an opposite bottom exit 22 to define a length of the slide 12. The slide body 16 forms a chute that is generally defined by a base wall 24 and a pair of opposite sidewalls 26a, 26b. As shown, the base wall 24 generally defines the slide surface 18 down which a rider

may slide. The sidewalls 26a, 26b serve to contain the rider within the slide 12 as the rider travels down the slide 12 along the slide surface 18 and may also form part of the slide surface 18. The slide 12 may further include a cover 28 attached to the body 16 of the slide 12 near the top entrance 20. The cover 28 cooperates with the slide body 16 to form a tunnel through which a rider passes as the rider enters the slide 12 at the top entrance 20 and begins to descend down the slide 12. The slide 12 may further include a plurality of supports 30 configured to support the slide 12 above a mount surface to which the supports 30 are attached, such as a cement floor, for example. The slide 12 may also include a mounting flange 32 at the top entrance 20 of the slide 12 that is configured to secure the slide 12 to a ladder structure used by riders to access the slide 12, for example.

[0029] In use, a rider enters the slide 12 via the top entrance 20, travels down the slide body 16 along the slide surface 18, and subsequently exits the slide 12 at the bottom exit 22. In particular, the rider rides down the slide 12 on the ride vehicle 14 which is configured to be positioned between the slide surface 18 and the rider. As will be described in further detail below, the ride vehicle 14 includes a mesh material that cooperates with the slide surface 18 to achieve an improved, i.e., reduced, coefficient of friction therebetween. The resultant coefficient of between the mesh material of the ride vehicle 14 and the slide surface 18 may be within a range of between about 0.03 to about 0.2, and particularly within a range of between about 0.05 to about 0.12, and in particular about 0.09, and therefore provides the rider with a fast rate of descent down the slide 12 (i.e., speed). As a result of the increased rate of descent down the slide 12, the rider may be launched from the bottom exit 22 of the slide 12 and into the air for aerial play before landing in a designated landing area (i.e., foam pad, inflatable pad, etc.). While the slide 12 may be ridden by a rider using their body alone, the coefficient of friction between the rider and the slide surface 18 will be higher compared to that when using the ride vehicle 14. As a result, the speed that the rider travels down the slide 12 will be slower.

[0030] With reference to FIGS. 2A-2C, details of the slide surface 18 will now be described in accordance with embodiments of the present invention. In that regard, the slide surface 18 includes a dry lubricant material provided as a coating 34 that is applied to the slide body 16 along the entire length of the slide surface 18 (i.e., between the top entrance 20 of the slide 12 to the bottom exit 22). In an alternative embodiment, only a portion of the slide surface 18, such as the top half or the bottom

half of the slide surface 18, may include the dry lubricant coating 34. In another embodiment, the slide surface 18 may not have a dry lubricant coating 34. If there is no coating, the coefficient of friction between the ride vehicle 14 and the uncoated slide surface 18 will be higher. This means that the rider will travel down the slide 12 at a slower speed than if the slide surface 18 included the dry lubricant coating 34.

[0031] With reference to FIG. 2A, which illustrates a cross-section of the slide 12 taken along line 2-2 of FIG. 1, the dry lubricant coating 34 is shown in accordance with a first embodiment of the invention. In that regard, the dry lubricant coating 34 is applied as a permanent coating to the slide body 16 to cover a sliding surface 36a, 36b of both sidewalls 26a, 26b, respectively, and a sliding surface 38 of the base wall 24. The sliding surfaces 36a, 36b, 38 may collectively define the slide surface 18. In the embodiment shown, the dry lubricant coating 34 covers substantially the entirety of the sliding surface 36a, 36b, 38 of each sidewall 26a, 26b and the base wall 24. That way, any contact between the ride vehicle 14 and the slide body 16 is with the coated surfaces 36a, 36b, 38 of the slide body 18 to yield a coefficient of friction therebetween that is within a range of between about 0.03 to about 0.2, and particularly within a range of between about 0.05 to about 0.12, as described in further detail below.

[0032] With continued reference to FIG. 2A, the dry lubricant coating 34 includes a thickness T which may be substantially constant over at least the sliding surface 38 of the base wall 24. The thickness T of the dry lubricant coating 34 may be within a range of between about 1 micron to about 5 micron, and more particularly within a range of between about 2 micron to about 3 micron. As used herein relative to the thickness T of the dry lubricant coating 34, "about" is intended to mean +/- 10%. However, the thickness T of the dry lubricant coating 34 may taper along each sidewall sliding surface 36a, 36b, as shown. In particular, the thickness T of the dry lubricant coating 34 may taper from the base wall 24 toward an edge 40a, 40b of each sidewall 26a, 26b, as shown.

[0033] FIG. 2B illustrates the dry lubricant coating 34 in accordance with a second embodiment of the invention. In that regard, the dry lubricant coating 34 includes a thickness T which may be substantially constant over the sliding surface 38 of the base wall 24. Furthermore, the thickness T of the dry lubricant coating 34 may taper along the sidewall sliding surfaces 36a, 36b to a terminal edge 42a, 42b along each sidewall 26a, 26b, respectively. As shown, the thickness T of the dry

lubricant coating 34 may taper from the base wall 24 toward the terminal edge 42a, 42b along each sidewall 26a, 26b. The thickness T of the dry lubricant coating 34 may be within a range of between about 1 micron to about 5 micron, and more particularly within a range of between about 2 micron to about 3 micron. The sliding surface 36a, 36b of each sidewall 26a, 26b defines a surface height measured between the edge 40a, 40b of each sidewall 26a, 26b and a respective transition 44a, 44b between each sidewall 26a, 26b and the base wall 24. In the embodiment shown, each terminal edge 42a, 42b of the dry lubricant coating 34 may be located at a midpoint along the sliding surface 36a, 36b of each sidewall 26a, 26b, for example. Stated differently, the dry lubricant coating 34 extends upwardly from the base wall 24 of the slide 12 to cover approximately 50% of the of the sliding surface 36a, 36b of each sidewall 26a, 26b. However, in alternative embodiments, each terminal edge 42a, 42b of the dry lubricant coating 34 may extend upwardly from the base wall 24 to cover any amount of the of the sliding surface 36a, 36b of each sidewall 26a, 26b, for example.

[0034] FIG. 2C illustrates the dry lubricant coating 34 in accordance with a third embodiment of the invention. In that regard, the dry lubricant coating 34 includes a thickness T which may taper along the sliding surface 38 of the base wall 24 to a terminal edge 42a, 42b located at each transition 44a, 44b between the base wall 24 and each sidewall 26a, 26b. The thickness T of the dry lubricant coating 34 may be within a range of between about 1 micron to about 5 micron, and more particularly within a range of between about 2 micron to about 3 micron. To this end, the dry lubricant coating 34 only covers the sliding surface 38 of the base wall 24 of the slide 12.

[0035] According to embodiments of the present invention, the dry lubricant material is an anti-friction or friction reducing material in the form of a dry lubricant coating 34 on the slide surface 18 of the slide 12. In that regard, the formulation for the dry lubricant material that is applied to the slide is a mixture comprising the following: (i) a resin, (ii) a lubricant, (iii) a thermal conductor, and (iv) a hardener, otherwise referred to as a hardening or curing agent. In one embodiment, the dry lubricant material may include a pigment to change a color of the dry lubricant material to match or to be different from a color of the slide body 16, for example. In the embodiment shown, the resin is an epoxy (i.e., epoxide) resin such as Steelflex Epoxy #9X commercially available from Fasco Epoxies Inc (Fort Pierce, FL), for

example. In another embodiment, the resin may be a silicone based epoxy polymeric material such as Wearlon-A (e.g., a mixture or blend of epoxy silicone emulsion, 2-propoxyethanol, water, and clay filler) or a PTFE based epoxy material such as Wearlon-B (e.g., a mixture or blend of polyethylene polyamine adduct, 2-propoxyethanol, methyl alcohol, water, and epoxy polytetrafluoroethylene emulsion), both of which are commercially available from Plastic Maritime Corporation (Wilton, NY). To this end, the resin may include silicone or polytetrafluoroethylene (PTFE). In an alternative embodiment, the resin may be a polyester based resin or a polyvinylfluoride based resin, for example.

[0036] The lubricity of the dry coating 34 and the resulting coefficient of friction between the slide surface 18 and the ride vehicle 14 is primarily influenced by the lubricant present in the dry lubricant material. In the embodiment shown, the lubricant is a solid (i.e., powderized) lubricant such as PTFE. The lubricant may alternatively be silicone (i.e., powderized). However, the lubricant may be any suitable solid lubricant such as graphite, silicone wax, molybdenum disulfide, or a solid hydrocarbon wax such as polyolefin wax, for example, or a mixture of solid lubricants. To this end, the lubricant is mixed into the resin described above to increase the amount of lubricant in the coating material. The effect of the lubricant on the lubricity of the dry lubricant coating 34 is attributed to the lamellar structure of the polymers which allows the macro molecules of PTFE or silicone, for example, to slip easily along each other. In some circumstances, such as for silicone, for example, the low-friction characteristics may be attributed to a layered structure on the molecular level and the weak bonding between layers. In any event, the powderized lubricant is mixed or blended with a solvent carrier, such as acetone, to then be mixed with the resin, as will be described in further detail below. However, the carrier may be any other suitable material that can be later removed from the dry lubricant material, such as by evaporation, for example.

[0037] The thermal conductor provides the dry lubricant material and thus the coating 34 with improved heat dissipation which also influences the coefficient of friction between the sliding surface 18 and the ride vehicle 14. In that regard, the thermal conductor improves heat absorption and heat transfer away from the sliding surface 18 of the slide 12 that is in contact with the ride vehicle 14. The resultant effect is an improved (i.e., reduced) and consistent coefficient of friction between the sliding surface 18 and the ride vehicle 14. In the embodiment shown, the thermal

conductor is copper, such as powderized copper. In that regard, the thermal conductor may be mixed or blended with a carrier, such as acetone, to then be mixed with the resin, as will be described in further detail below. The thermal conductor may be any other suitable thermally conductive material, such as aluminum, zinc, iron, metal fibers, etc. To this end, the lubricant, such as PTFE, may further reduce temperature generation between surfaces of the mesh material 46 of the ride vehicle 14 and the slide surface 18, thereby resulting in an improved (i.e., reduced) and consistent coefficient of friction therebetween.

[0038] The hardening or curing agent operates as a catalyst to cure the dry lubricant material to the slide surface 18 to form the permanent coating 34 described above. In that regard, the hardening agent may be an anhydride-based, amine-based, polyamide, aliphatic or cycloaliphatic hardening agent, and may comprise amines such as aliphatic amines, for example, acids, acid anhydrides, phenols, alcohols or thiols, for example. To this end, the hardening agent may be the Steelflex #9X Hardener commercially available from Fasco Epoxies Inc (Fort Pierce, FL), for example.

[0039] In one embodiment, the composition of the dry lubricant material comprises the following: (i) 50% to 74% by weight of a resin, such as a silicon-based epoxy resin, (ii) 5% to 15% by weight of a lubricant, such as PTFE, (iii) 1% to 5% by weight of a thermal conductor, such as copper, and (iv) 20% to 30% by weight of a hardening or curing agent, such as an anhydride-based or amine-based hardener. In an alternative embodiment, the dry lubricant material composition may comprise the following: (i) 30% to 54% by weight of a resin, such as a silicon-based epoxy resin, (ii) 5% to 15% by weight of a lubricant, such as PTFE, (iii) 1% to 5% by weight of a thermal conductor, such as copper, and (iv) 30% to 50% by weight of a hardening or curing agent, such as an anhydride-based or amine-based hardener. In another alternative embodiment, the dry lubricant material composition may comprise the following: (i) 20% to 30% by weight of a resin, such as a silicon-based epoxy resin, (ii) 30% to 50% by weight of a lubricant, such as PTFE, (iii) 1% to 5% by weight of a thermal conductor, such as copper, and (iv) 20% to 30% by weight of a hardening or curing agent, such as an anhydride-based or amine-based hardener. However, depending on the desired drying and solidification time for the coating 34, as little as 10%, or as much as 50% by weight of the hardening or curing agent may be used in the above-described embodiments.

[0040] In another embodiment, the composition of the dry lubricant material comprises the following: (i) 50% to 74% by weight of a resin, such as a PTFE-based epoxy resin, (ii) 5% to 15% by weight of a lubricant, such as silicone, (iii) 1% to 5% by weight of a thermal conductor, such as copper, and (iv) 20% to 30% by weight of a hardening or curing agent, such as an anhydride-based or amine-based hardener. In an alternative embodiment, the dry lubricant material composition may comprise the following: (i) 30% to 54% by weight of a resin, such as a PTFE-based epoxy resin, (ii) 5% to 15% by weight of a lubricant, such as silicone, (iii) 1% to 5% by weight of a thermal conductor, such as copper, and (iv) 30% to 50% by weight of a hardening or curing agent, such as an anhydride-based or amine-based hardener. In another alternative embodiment, the dry lubricant material composition may comprise the following: (i) 20% to 30% by weight of a resin, such as a silicon-based epoxy resin, (ii) 30% to 50% by weight of a lubricant, such as silicone, (iii) 1% to 5% by weight of a thermal conductor, such as copper, and (iv) 20% to 30% by weight of a hardening or curing agent, such as an anhydride-based or amine-based hardener. However, depending on the desired drying and solidification time for the coating 34, as little as 10%, or as much as 50% by weight of the hardening or curing agent may be used in the above-described embodiments.

[0041] The dry lubricant material according to the present invention is prepared by mixing the components together using any conventional mixing apparatus, such as a powered mixer or stirrer, for example. In that regard, the lubricant and the thermal conductor are mixed into or blended into a solvent carrier, such as acetone, to form a first intermediate mixture. The first intermediate mixture is then mixed or blended into the resin to form a second intermediate mixture. The second intermediate mixture is then mixed or blended with the hardening or curing agent to form the dry lubricant material which can then be applied to the slide surface 18. To this end, the hardening or curing agent is mixed or blended into the second intermediate mixture immediately prior to applying the dry lubricant material to the slide surface 18 of a formed slide 12. To this end, the hardening agent may be mixed or blended into the second intermediate mixture 30 minutes prior to the dry lubricant material being applied to the slide surface 18, for example.

[0042] The dry lubricant material may be applied to the slide surface 18 of a formed slide 12 by spraying, rolling, roller coating, or brushing the dry lubricant material onto the slide surface 18 to form the coating 34. Once the dry lubricant

material is applied to the slide surface 18, the dry lubricant material is let to cure to form the dry coating 34 having a specific thickness T. Curing of the dry lubricant material includes air drying of the material. In that regard, the dry lubricant material may be partially cured after 4 hours of air drying, and fully cured after 48 hours of air drying, for example. During curing of the dry lubricant material, volatile components such as the acetone carrier, for example, are removed from the dry lubricant material via evaporation. The slide surface 18 may be wiped clean or otherwise pretreated to improve the adhesion and the life of the dry lubricant material and coating 34.

[0043] Having now described certain details of the dry lubricant material which forms the dry lubricant coating 34 on the slide surface 18 of the slide 12 of the slide system 10, details of the ride vehicle 14 of the slide system 10 that incorporates a mesh 46 material in accordance with an embodiment of the present invention will now be described. As shown in FIGS. 3-4, the ride vehicle 14, which may otherwise be referred to as a slide mat, includes a flexible elongate body 48 that extends between a first end 50 and an opposite second end 52 to define a length of the ride vehicle 14. The first end 50 of the body 48 may form the front of the ride vehicle 14, for example. The body 48 further includes a top surface 54 and an opposite bottom surface 56. The top surface 54 is configured to be in contact with a rider and includes a pair of handles 58 at the first end 50 configured to be gripped by the rider. The bottom surface 56 is configured to engage the slide surface 18 and includes the mesh material 46 as will be described in further detail below. While the exemplary ride vehicle 14 shown is generally rectangular in shape, the ride vehicle 14 may include other polygonal shapes or circular shapes, for example.

[0044] As shown in FIGS. 3 and 4, the body 48 of the ride vehicle 14 is defined by a flexible central core 60 that is sandwiched between an outer fabric layer 62 and a mesh layer 64 formed of the mesh material 46. The fabric layer 62 forms the top surface 54 of the ride vehicle 14 and the mesh layer 64 forms the bottom surface 56 of the ride vehicle 14. The fabric layer 62 may be formed of a synthetic material, such as Neoprene, for example, or any other suitable wear-resistant material. The fabric layer 62 and the mesh layer 64 may be coupled together at a seam that extends around a sidewall 66 of the ride vehicle 14, for example. The central core 60 of the ride vehicle 14 is formed of a flexible material, such as a composite foam pad, for example. The central core 60 may have a thickness (i.e., measured along a height of the sidewall 66 of the ride vehicle 14) of approximately 0.25 inches. The

central core 60, which generally forms the shape of the body 48 of the ride vehicle 14, may be enclosed or surrounded with a fabric liner 68 (FIG. 4) for increased wear resistance. To this end, the fabric liner 68 is positioned between the central core 60 and the fabric layer 62 and the mesh layer 64.

[0045] Referring now to FIG. 5, an enlarged view of a portion 5 of the mesh layer 64 of Fig. 4 is shown illustrating characteristics of the mesh material 46. In that regard, the mesh material 46 is a woven mesh that comprises a weave of threads formed of monofilament synthetic fibers. In particular, the mesh material 46 includes a number of warp threads 70 which extend generally perpendicular to a number of weft threads 72 to form a plurality of interstitial openings 74 therebetween. In the embodiment shown, each of the interstitial openings 74 is generally square in shape and may generally form a 300 micron opening, for example, and the open area of the mesh material 46 may be within a range of between about 35% to about 50%, and particularly about 44%. However, the interstitial openings 74 may be within a range of between about 45 micron to about 1200 micron, for example, and the open area of the mesh material 46 may be within a range of between about 25% to about 65%, for example. As used herein relative to the size of the interstitial openings 74 and the open area of the mesh material 46, "about" is intended to mean +/- 10%. To this end, the orientation of the warp and weft threads 70, 72 and the interstitial openings 74 formed therebetween defines a permeability of the mesh material 46. The permeability of the mesh material 46 in the embodiment shown, which is a measurement of fluid flow through the mesh material 46, typically measured in cubic feet per minute (cfm) at 0.5 inch water pressure, is within a range of between about 550 to about 622 cfm of air per minute. As used herein relative to the permeability of the mesh material 46, "about" is intended to mean +/- 10%. The open area of the mesh material 46 refers to the total percentage of open space or voids in the mesh structure. It represents the portion of the mesh material 46, and the bottom surface 56 of the ride vehicle 14, that is not occupied by solid material such as threads.

[0046] In the embodiment shown, the warp and weft threads 70, 72 of the mesh material 46 are formed of a polyamide monofilament structure, such as Nylon 6 (otherwise referred to as polycaprolactam), which proved during testing to yield the lowest coefficient of friction in combination with the dry lubricant coating 34. However, the warp and weft threads 70, 72 may be formed from other types of

polyamide monofilament structures, or other materials such as polyvinylidene fluoride, polyester, polyethylene, polypropylene, PTFE, or UHMWPE, for example.

[0047] With continued reference to FIG. 5, the diameter of each warp thread 70 may be within a range of between about 0.1mm to about 0.6mm, and particularly between about 0.2mm to about 0.4mm, and even more particularly about 0.3mm (i.e., 300 micron). The diameter of each weft thread 72 may be within a range of between about 0.1mm to about 0.6mm, and particularly between about 0.2mm to about 0.4mm, and even more particularly about 0.3mm (i.e., 300 micron). As used herein relative to the diameter of the warp and weft threads 70, 72, “about” is intended to mean +/- 5%. The mesh fabric 46 is arranged such that the warp threads 70 extend along the body 48 of the ride vehicle 14 in a lengthwise direction (i.e., in a direction between the first end 50 and the second end 52 of the body 48 of the ride vehicle 14). In that regard, the weft threads 72 are configured to extend along the body 48 of the ride vehicle 14 in a widthwise direction. In the embodiment shown, the density of the warp threads 70 is approximately 22 threads per centimeter of mesh material 46. The density of the weft threads 72 is approximately 13 threads per centimeter of mesh material 46.

[0048] In developing the dry lubricant material and the mesh material 46, performance tests and analysis was performed using a model of the slide system 10 described above. In particular, SOLIDWORKS Simulations of the model were ran to determine the performance of the slide system 10. The results of one of the SOLIDWORKS Simulations is shown in FIG. 6. In that regard, a rider of average weight (i.e., 160lbs) descending down the slide 12 on a ride vehicle 14, with a kinetic coefficient of friction of 0.09 between the mesh material 46 of the ride vehicle 14 and the dry lubricant coating 34 of the slide surface 18, will exit the bottom exit 22 of the slide 12 after approximately 2.9 seconds, as indicated by the dashed vertical line 80. The rider will achieve a maximum velocity of approximately 415 inches per second and exits the slide 12 at a velocity of approximately 235 inches per second.

[0049] The coefficient of friction between surfaces of the mesh material 46 and the slide surface 18 may be determined using the American Society for Testing and Materials International (ASTM) Coefficient of Friction ASTM D1894 standard test method (July, 2023), which may be used to determine both kinetic (moving) and static (starting) coefficient of friction of one surface being dragged across another. The ASTM D1894 test method can be found at www.astm.org. For the ASTM

D1894 test, the material specimen is attached to a sled of defined weight. This sled is pulled across another surface at a speed of 150 mm/minute. The force required to start the sled is measured to get the static friction. The force required to maintain the motion of the sled is measured to get the kinetic friction.

[0050] With reference now to FIGS. 7A-7B, a ride vehicle in the form of a body suit 100 is shown in accordance with an embodiment of the present invention. The body suit 100 is configured to be worn by a rider and is formed of the mesh material 46 described above. The body suit 100 is configured to cover the arms, legs, and torso of a rider, for example. In particular, a front 102 and a back 104 of the body suit 100 may be formed of the mesh material 46, as shown. That way, when a rider slides down the slide 12, either on their back or front, the mesh material 46 is positioned between the rider and the slide surface 18 of the slide 12. In an alternative embodiment, the back 104 or the front 102 may be the only portion of the body suit 100 formed of the mesh material 46. To this end, while aspects of the present invention are shown and described in the context of certain types or configurations of ride vehicles, it will be understood that the same inventive concepts related to aspects of the mesh material 46 may be implemented with different ride vehicle designs, such as a sack configured to contain the rider, for example. To this end, the drawings are not intended to be limiting.

[0051] While the invention has been illustrated by the description of various embodiments thereof, and while the embodiments have been described in considerable detail, it is not intended to restrict or in any way limit the scope of the appended claims to such detail. Thus, the various features discussed herein may be used alone or in any combination. Additional advantages and modifications will readily appear to those skilled in the art. The invention in its broader aspects is therefore not limited to the specific details and illustrative examples shown and described. Accordingly, departures may be made from such details without departing from the scope of the general inventive concept.

WHAT IS CLAIMED IS:

1. A recreational slide system, comprising:
a slide including a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide; and
a ride vehicle configured to support a rider down the slide, the ride vehicle including a top surface configured to contact the rider and a mesh layer that forms a bottom surface configured to contact the slide surface;
wherein a coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface is within a range of between about 0.03 to about 0.2.
2. The recreational slide system of claim 1, wherein the coefficient of friction is kinetic coefficient of friction.
3. The recreational slide system of claim 1, wherein the slide surface includes a dry lubricant material.
4. The recreational slide system of claim 3, wherein the dry lubricant material comprises a dry lubricant coating over the slide surface.
5. The recreational slide system of claim 4, wherein the dry lubricant coating includes a thickness that is within a range of between about 1 micron to about 5 micron.
6. The recreational slide system of claim 4, wherein the slide body includes a base wall and a pair of sidewalls and the dry lubricant coating covers a sliding surface of the base wall.
7. The recreational slide system of claim 6, wherein the dry lubricant coating covers at least a portion of the pair of sidewalls.
8. The recreational slide system of claim 1, wherein the dry lubricant material includes a resin, a lubricant, a thermal conductor, and a hardener.

9. The recreational slide system of claim 8, wherein the dry lubricant material applied to the slide surface comprises:
- 20% to 30% by weight of the resin;
 - 30% to 50% by weight of the lubricant;
 - 1% to 5% by weight of the thermal conductor; and
 - 20% to 30% by weight of the hardener.
10. The recreational slide system of claim 9, wherein the resin comprises a silicon-based epoxy resin.
11. The recreational slide system of claim 9, wherein the lubricant comprises polytetrafluoroethylene.
12. The recreational slide system of claim 9, wherein the thermal conductor comprises copper.
13. The recreational slide system of claim 9, wherein the hardener comprises an anhydride-based or an amine-based catalyst.
14. The recreational slide system of claim 1, wherein the mesh layer of the ride vehicle comprises a weave of threads formed of monofilament synthetic fibers.
15. The recreational slide system of claim 14, wherein the monofilament synthetic fibers comprise a polyamide monofilament structure.
16. The recreational slide system of claim 14, wherein the weave of threads comprises a plurality of weft threads each having a thread diameter within a range of between 0.1mm to 0.6mm and a plurality of warp threads each having a thread diameter within a range of between about 0.1mm to about 0.6mm.
17. The recreational slide system of claim 14, wherein the mesh layer includes a plurality of interstitial openings that define an open area of the mesh layer, wherein the open area of the mesh layer is within a range of between about 35% to about 50%.

18. A non-wet lubricated recreational slide, comprising:
a slide body with a slide surface that extends between a top entrance of the slide and a bottom exit of the slide, the slide surface including a dry lubricant coating comprising a resin, a lubricant, a thermal conductor, and a hardener.
19. The non-wet lubricated recreational slide of claim 18, wherein the dry lubricant coating comprises:
20% to 30% by weight of the resin;
30% to 50% by weight of the lubricant;
1% to 5% by weight of the thermal conductor; and
20% to 30% by weight of the hardener.
20. The non-wet lubricated recreational slide of claim 18, wherein the slide body includes a base wall and a pair of sidewalls and the dry lubricant coating covers a sliding surface of the base wall.
21. The non-wet lubricated recreational slide of claim 20, wherein the dry lubricant coating covers at least a portion of a sliding surface of the pair of sidewalls.
22. A ride vehicle configured to support a rider down a non-wet lubricated recreational slide, the ride vehicle comprising:
an elongate body that extends between a first end and an opposite second end, the body including a central core positioned between a top surface of the ride vehicle and a woven mesh layer that forms a bottom surface of the ride vehicle that is configured to contact the non-wet lubricated recreational slide; and
at least one handle attached to the fabric layer.
23. The ride vehicle of claim 22, wherein the woven mesh layer comprises a weave of threads formed of monofilament synthetic fibers.
24. The ride vehicle of claim 22, wherein the monofilament synthetic fibers comprise a polyamide monofilament structure.

25. The ride vehicle of claim 22, wherein the mesh layer includes a plurality of interstitial openings that define an open area of the mesh layer, wherein the open area of the mesh layer is within a range of between about 35% to about 50%.

26. The ride vehicle of claim 22, wherein the mesh layer includes a plurality of weft threads each having a thread diameter within a range of between 0.1mm to 0.6mm and a plurality of warp threads each having a thread diameter within a range of between about 0.1mm to about 0.6mm.

27. The ride vehicle of claim 22, wherein the central core is surrounded by a fabric liner that is positioned between the central core and the fabric layer and the woven mesh layer.

28. A recreational slide system, comprising:
the ride vehicle of claim 22; and
a slide including a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide;
wherein a coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface is within a range of between about 0.03 to about 0.2.

29. The recreational slide system of claim 28, wherein the coefficient of friction is kinetic coefficient of friction.

LOW-FRICTION RECREATIONAL SLIDE SYSTEM**Abstract**

A recreational slide system is provided. The recreational slide system includes a slide and a ride vehicle configured to support a rider down the slide. The slide includes a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide. The ride vehicle includes a fabric layer that forms a top surface configured to contact the rider and a mesh layer that forms a bottom surface configured to contact the slide surface. The coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface is within a range of between about 0.03 to about 0.2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		
The application data sheet is part of the provisional or nonprovisional application for which it is being submitted. The following form contains the bibliographic data arranged in a format specified by the United States Patent and Trademark Office as outlined in 37 CFR 1.76. This document may be completed electronically and submitted to the Office in electronic format using the Electronic Filing System (EFS) or the document may be printed and included in a paper filed application.			

Secrecy Order 37 CFR 5.2:

☐ Portions or all of the application associated with this Application Data Sheet may fall under a Secrecy Order pursuant to 37 CFR 5.2 (Paper filers only. Applications that fall under Secrecy Order may not be filed electronically.)

Inventor Information:

Inventor 1					Remove	
Legal Name						
Prefix	Given Name	Middle Name	Family Name	Suffix		
Mr.	Gary		Schmit			
Residence Information (Select One) ☒ US Residency ☐ Non US Residency ☐ Active US Military Service						
City	Phoenix	State/Province	AZ	Country of Residence	US	
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Address 2	Suite 1630-925					
City	Phoenix	State/Province	AZ			
Postal Code	85050	Country	US			
All Inventors Must Be Listed - Additional Inventor Information blocks may be generated within this form by selecting the Add button. Add						

Correspondence Information:

Enter either Customer Number or complete the Correspondence Information section below. For further information see 37 CFR 1.33(a).		
☐ An Address is being provided for the correspondence information of this application.		
Customer Number	26875	
Email Address	USPTODOCK@WHE-LAW.COM	Add Email Remove Email

Application Information:

Title of the Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		
Attorney Docket Number	SSCO-03US	Small Entity Status Claimed	☒
Application Type	Nonprovisional		
Subject Matter	Utility		
Total Number of Drawing Sheets (if any)	6	Suggested Figure for Publication (if any)	

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		

Filing By Reference:

Only complete this section when filing an application by reference under 35 U.S.C. 111(c) and 37 CFR 1.57(a). Do not complete this section if application papers including a specification and any drawings are being filed. Any domestic benefit or foreign priority information must be provided in the appropriate section(s) below (i.e., "Domestic Benefit/National Stage Information" and "Foreign Priority Information").

For the purposes of a filing date under 37 CFR 1.53(b), the description and any drawings of the present application are replaced by this reference to the previously filed application, subject to conditions and requirements of 37 CFR 1.57(a).

Application number of the previously filed application	Filing date (YYYY-MM-DD)	Intellectual Property Authority or Country

Publication Information:

☐ Request Early Publication (Fee required at time of Request 37 CFR 1.219)

☐ **Request Not to Publish.** I hereby request that the attached application not be published under 35 U.S.C. 122(b) and certify that the invention disclosed in the attached application **has not and will not** be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication at eighteen months after filing.

Representative Information:

Representative information should be provided for all practitioners having a power of attorney in the application. Providing this information in the Application Data Sheet does not constitute a power of attorney in the application (see 37 CFR 1.32). Either enter Customer Number or complete the Representative Name section below. If both sections are completed the customer Number will be used for the Representative Information during processing.

Please Select One:	☒ Customer Number	☐ US Patent Practitioner	☐ Limited Recognition (37 CFR 11.9)
Customer Number	26875		

Domestic Benefit/National Stage Information:

This section allows for the applicant to either claim benefit under 35 U.S.C. 119(e), 120, 121, 365(c), or 386(c) or indicate National Stage entry from a PCT application. Providing benefit claim information in the Application Data Sheet constitutes the specific reference required by 35 U.S.C. 119(e) or 120, and 37 CFR 1.78.

When referring to the current application, please leave the "Application Number" field blank.

Prior Application Status	Pending	Remove	
Application Number	Continuity Type	Prior Application Number	Filing or 371(c) Date (YYYY-MM-DD)
	Claims benefit of provisional	63/381818	2022-11-01
Additional Domestic Benefit/National Stage Data may be generated within this form by selecting the Add button.			Add

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		

Foreign Priority Information:

This section allows for the applicant to claim priority to a foreign application. Providing this information in the application data sheet constitutes the claim for priority as required by 35 U.S.C. 119(b) and 37 CFR 1.55. When priority is claimed to a foreign application that is eligible for retrieval under the priority document exchange program (PDX)ⁱ the information will be used by the Office to automatically attempt retrieval pursuant to 37 CFR 1.55(i)(1) and (2). Under the PDX program, applicant bears the ultimate responsibility for ensuring that a copy of the foreign application is received by the Office from the participating foreign intellectual property office, or a certified copy of the foreign priority application is filed, within the time period specified in 37 CFR 1.55(g)(1).

Application Number	Country ⁱ	Filing Date (YYYY-MM-DD)	Access Code ⁱ (if applicable)

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Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications

☐ This application (1) claims priority to or the benefit of an application filed before March 16, 2013 and (2) also contains, or contained at any time, a claim to a claimed invention that has an effective filing date on or after March 16, 2013.

NOTE: By providing this statement under 37 CFR 1.55 or 1.78, this application, with a filing date on or after March 16, 2013, will be examined under the first inventor to file provisions of the AIA.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		

Authorization or Opt-Out of Authorization to Permit Access:

When this Application Data Sheet is properly signed and filed with the application, applicant has provided written authority to permit a participating foreign intellectual property (IP) office access to the instant application-as-filed (see paragraph A in subsection 1 below) and the European Patent Office (EPO) access to any search results from the instant application (see paragraph B in subsection 1 below).

Should applicant choose not to provide an authorization identified in subsection 1 below, applicant **must opt-out** of the authorization by checking the corresponding box A or B or both in subsection 2 below.

NOTE: This section of the Application Data Sheet is **ONLY** reviewed and processed with the **INITIAL** filing of an application. After the initial filing of an application, an Application Data Sheet cannot be used to provide or rescind authorization for access by a foreign IP office(s). Instead, Form PTO/SB/39 or PTO/SB/69 must be used as appropriate.

1. Authorization to Permit Access by a Foreign Intellectual Property Office(s)

A. Priority Document Exchange (PDX) - Unless box A in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the State Intellectual Property Office of the People's Republic of China (SIPO), the World Intellectual Property Organization (WIPO), and any other foreign intellectual property office participating with the USPTO in a bilateral or multilateral priority document exchange agreement in which a foreign application claiming priority to the instant patent application is filed, access to: (1) the instant patent application-as-filed and its related bibliographic data, (2) any foreign or domestic application to which priority or benefit is claimed by the instant application and its related bibliographic data, and (3) the date of filing of this Authorization. See 37 CFR 1.14(h)(1).

B. Search Results from U.S. Application to EPO - Unless box B in subsection 2 (opt-out of authorization) is checked, the undersigned hereby **grants the USPTO authority** to provide the EPO access to the bibliographic data and search results from the instant patent application when a European patent application claiming priority to the instant patent application is filed. See 37 CFR 1.14(h)(2).

The applicant is reminded that the EPO's Rule 141(1) EPC (European Patent Convention) requires applicants to submit a copy of search results from the instant application without delay in a European patent application that claims priority to the instant application.

2. Opt-Out of Authorizations to Permit Access by a Foreign Intellectual Property Office(s)

☐ A. Applicant **DOES NOT** authorize the USPTO to permit a participating foreign IP office access to the instant application-as-filed. If this box is checked, the USPTO will not be providing a participating foreign IP office with any documents and information identified in subsection 1A above.

☐ B. Applicant **DOES NOT** authorize the USPTO to transmit to the EPO any search results from the instant patent application. If this box is checked, the USPTO will not be providing the EPO with search results from the instant application.

NOTE: Once the application has published or is otherwise publicly available, the USPTO may provide access to the application in accordance with 37 CFR 1.14.

Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		

Applicant Information:

Providing assignment information in this section does not substitute for compliance with any requirement of part 3 of Title 37 of CFR to have an assignment recorded by the Office.			
Applicant 1			Remove
If the applicant is the inventor (or the remaining joint inventor or inventors under 37 CFR 1.45), this section should not be completed. The information to be provided in this section is the name and address of the legal representative who is the applicant under 37 CFR 1.43; or the name and address of the assignee, person to whom the inventor is under an obligation to assign the invention, or person who otherwise shows sufficient proprietary interest in the matter who is the applicant under 37 CFR 1.46. If the applicant is an applicant under 37 CFR 1.46 (assignee, person to whom the inventor is obligated to assign, or person who otherwise shows sufficient proprietary interest) together with one or more joint inventors, then the joint inventor or inventors who are also the applicant should be identified in this section.			
Clear			
☒ Assignee		☐ Legal Representative under 35 U.S.C. 117	
☐ Person to whom the inventor is obligated to assign.		☐ Person who shows sufficient proprietary interest	
If applicant is the legal representative, indicate the authority to file the patent application, the inventor is:			
Name of the Deceased or Legally Incapacitated Inventor:			
If the Applicant is an Organization check here. ☒			
Organization Name	Slick Slide LLC		
Mailing Address Information For Applicant:			
Address 1	4247 E. Casitas Del Rio		
Address 2			
City	Phoenix	State/Province	AZ
Country	US	Postal Code	85050
Phone Number		Fax Number	
Email Address			
Additional Applicant Data may be generated within this form by selecting the Add button. Add			

Assignee Information including Non-Applicant Assignee Information:

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		

Assignee 1

Complete this section if assignee information, including non-applicant assignee information, is desired to be included on the patent application publication. An assignee-applicant identified in the "Applicant Information" section will appear on the patent application publication as an applicant. For an assignee-applicant, complete this section only if identification as an assignee is also desired on the patent application publication.

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Prefix	Given Name	Middle Name	Family Name	Suffix

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Address 2			
City		State/Province	
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This Application Data Sheet **must** be signed by a patent practitioner if one or more of the applicants is a **juristic entity** (e.g., corporation or association). If the applicant is two or more joint inventors, this form must be signed by a patent practitioner, **all** joint inventors who are the applicant, or one or more joint inventor-applicants who have been given power of attorney (e.g., see USPTO Form PTO/AIA/81) on behalf of **all** joint inventor-applicants.

See 37 CFR 1.4(d) for the manner of making signatures and certifications.

Signature	/David H. Brinkman/		Date (YYYY-MM-DD)	2023-07-10	
First Name	David	Last Name	Brinkman	Registration Number	40,532

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Application Data Sheet 37 CFR 1.76		Attorney Docket Number	SSCO-03US
		Application Number	
Title of Invention	LOW-FRICTION RECREATIONAL SLIDE SYSTEM		

This collection of information is required by 37 CFR 1.76. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 23 minutes to complete, including gathering, preparing, and submitting the completed application data sheet form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**CERTIFICATION AND REQUEST FOR PRIORITIZED EXAMINATION
UNDER 37 CFR 1.102(e) (Page 1 of 1)**

First Named Inventor:	Gary Schmit	Nonprovisional Application Number (if known):	Not Yet Assigned
Title of Invention:	Low-Friction Recreational Slide System		

APPLICANT HEREBY CERTIFIES THE FOLLOWING AND REQUESTS PRIORITIZED EXAMINATION FOR THE ABOVE-IDENTIFIED APPLICATION.

1. The processing fee set forth in 37 CFR 1.17(i)(1) and the prioritized examination fee set forth in 37 CFR 1.17(c) have been filed with the request. The publication fee requirement is met because that fee, set forth in 37 CFR 1.18(d), is currently \$0. The basic filing fee, search fee, and examination fee are filed with the request or have been already been paid. I understand that any required excess claims fees or application size fee must be paid for the application.
2. I understand that the application may not contain, or be amended to contain, more than four independent claims, more than thirty total claims, or any multiple dependent claims, and that any request for an extension of time will cause an outstanding Track I request to be dismissed.
3. The applicable box is checked below:

I. ☒ Original Application (Track One) - Prioritized Examination under § 1.102(e)(1)

- i. (a) The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a). This certification and request is being filed with the utility application via EFS-Web.
---OR---
(b) The application is an original nonprovisional plant application filed under 35 U.S.C. 111(a). This certification and request is being filed with the plant application in paper.
- ii. An executed inventor's oath or declaration under 37 CFR 1.63 or 37 CFR 1.64 for each inventor, or the application data sheet meeting the conditions specified in 37 CFR 1.53(f)(3)(i) is filed with the application.

II. ☐ Request for Continued Examination - Prioritized Examination under § 1.102(e)(2)

- i. A request for continued examination has been filed with, or prior to, this form.
- ii. If the application is a utility application, this certification and request is being filed via EFS-Web.
- iii. The application is an original nonprovisional utility application filed under 35 U.S.C. 111(a), or is a national stage entry under 35 U.S.C. 371.
- iv. This certification and request is being filed prior to the mailing of a first Office action responsive to the request for continued examination.
- v. No prior request for continued examination has been granted prioritized examination status under 37 CFR 1.102(e)(2).

Signature	/David H. Brinkman/	Date	July 10, 2023
Name (Print/Typed)	David H. Brinkman	Practitioner Registration Number	40532
Note: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. Submit multiple forms if more than one signature is required.*			
☒ *Total of <u>1</u> forms are submitted.			

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

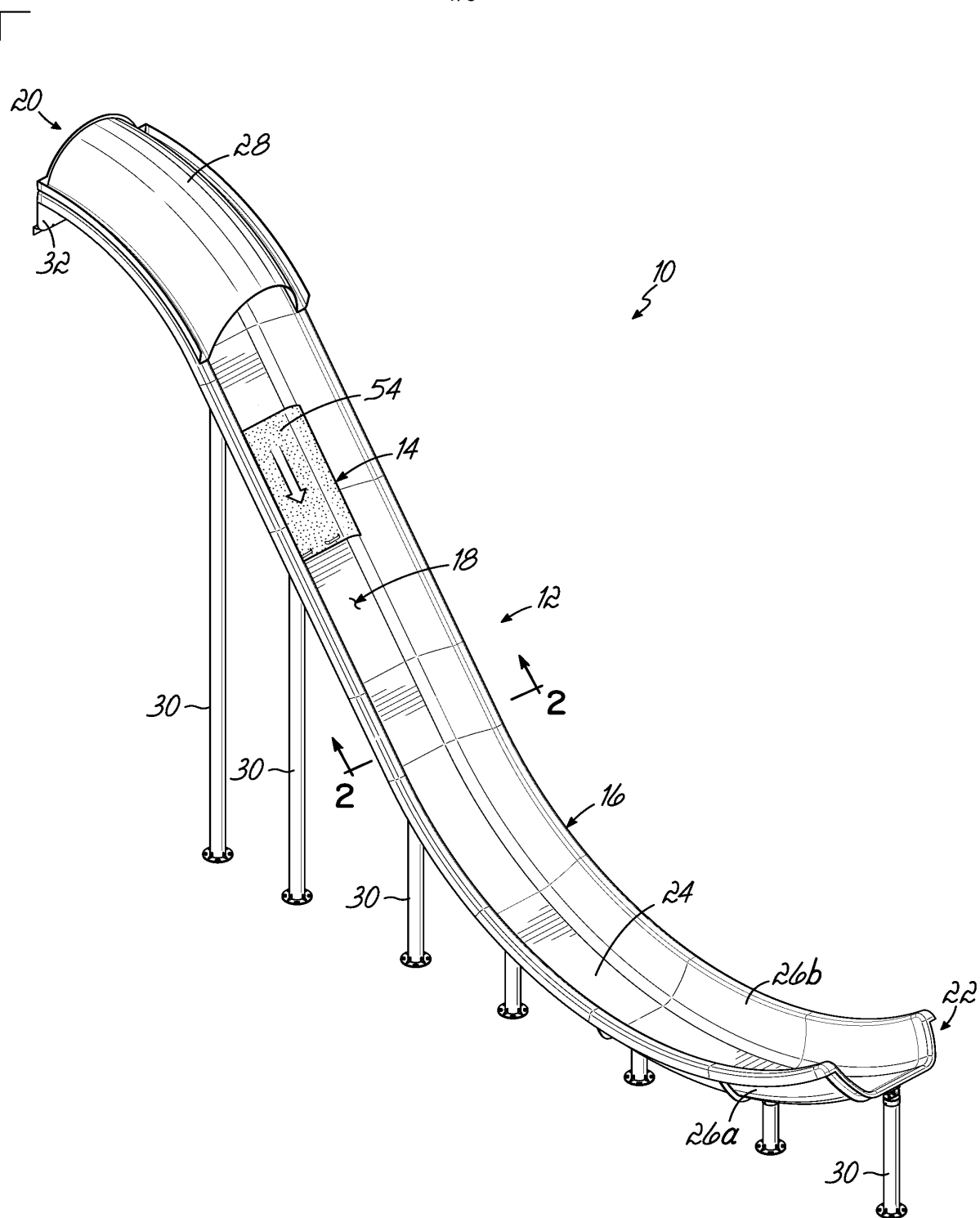


FIG. 1

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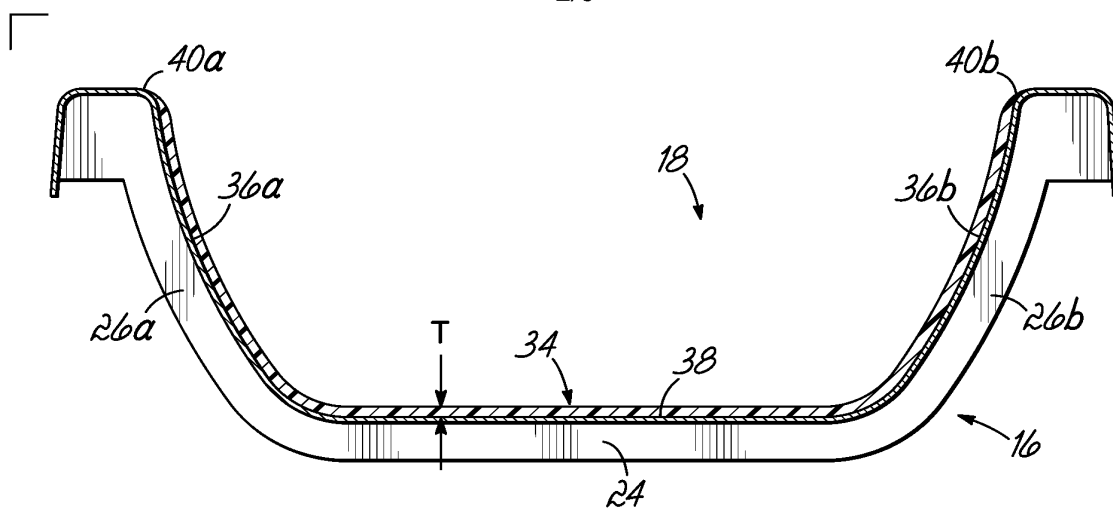


FIG. 2A

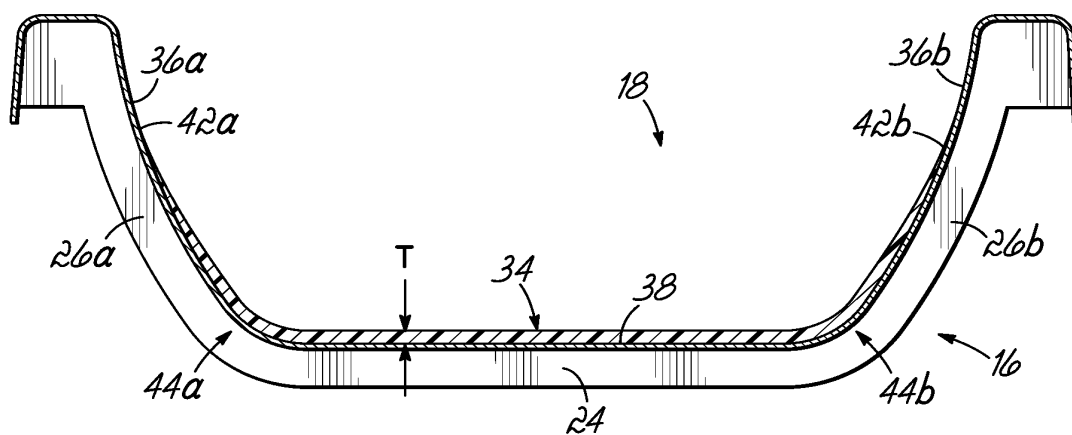


FIG. 2B

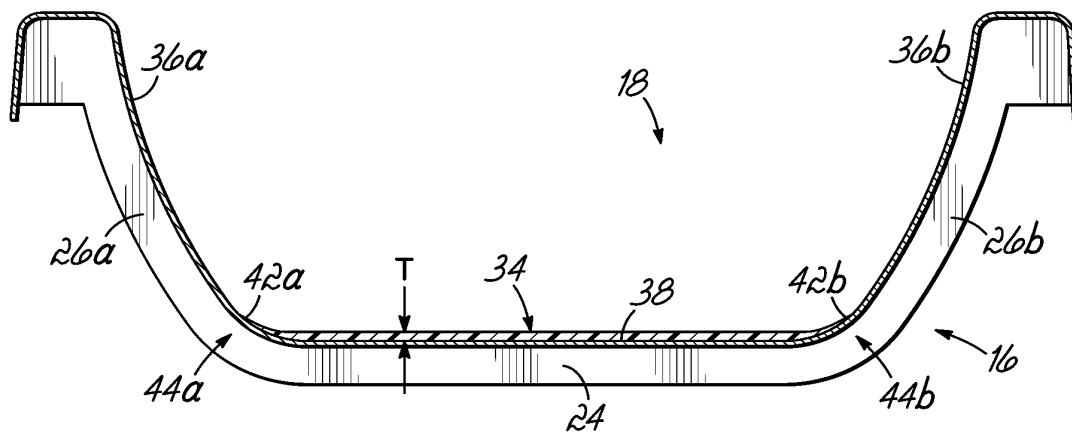


FIG. 2C



4/6

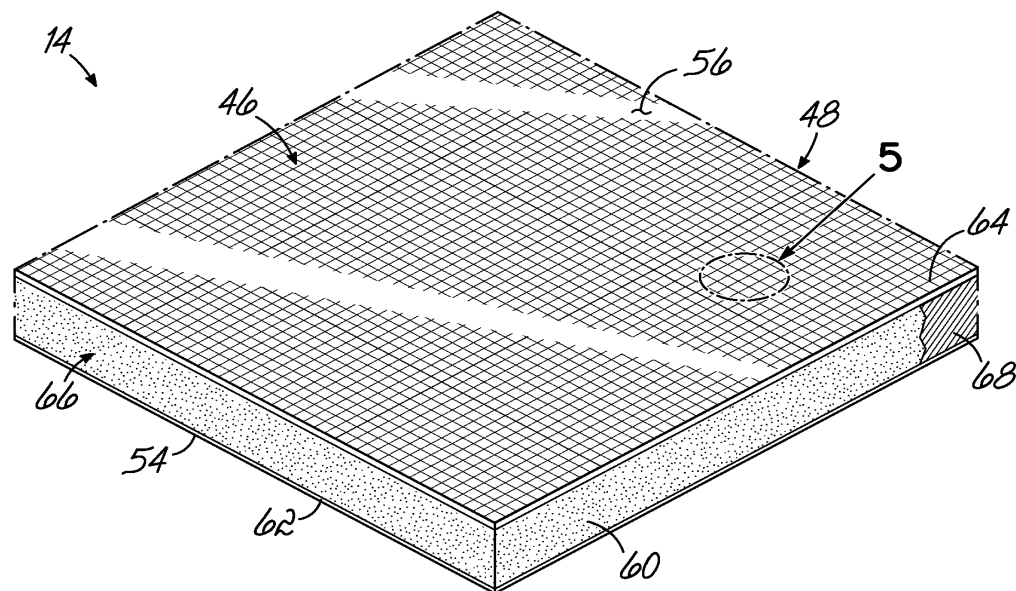


FIG. 4

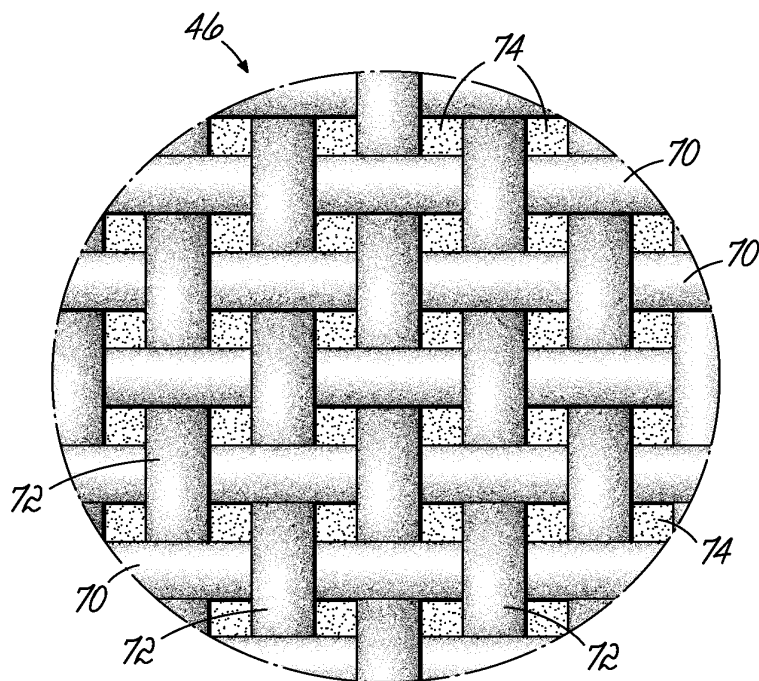


FIG. 5

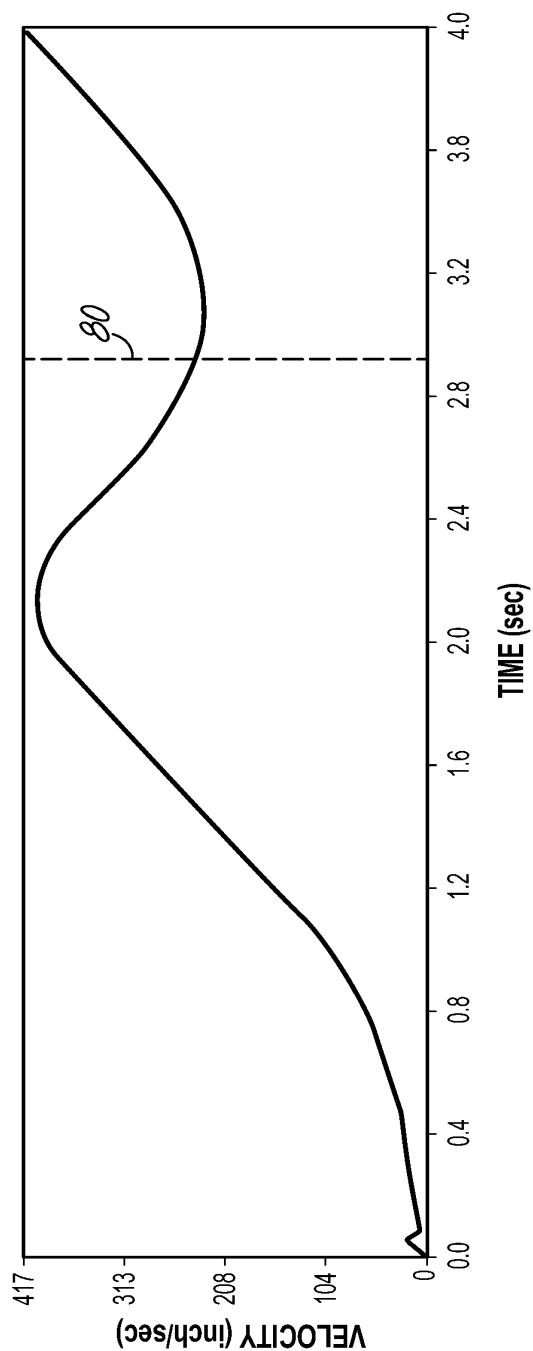
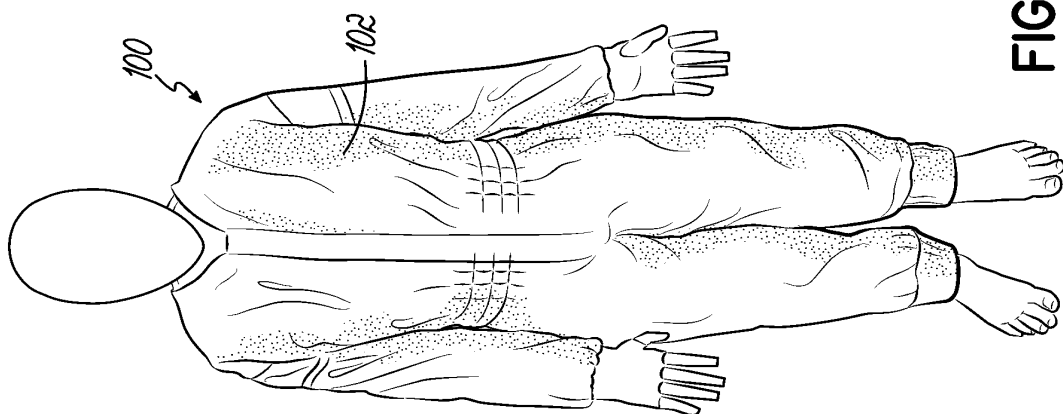
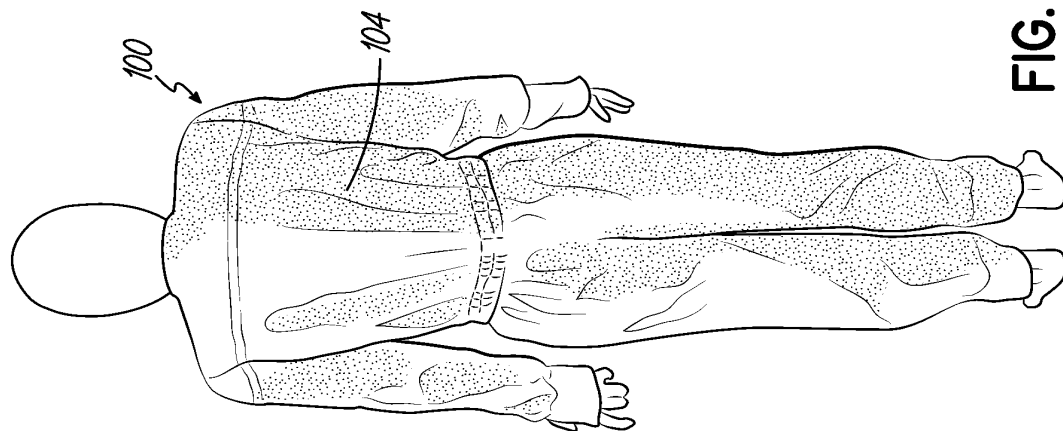


FIG. 6



**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

Title of Invention: **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**

As the below named inventor, I hereby declare that:

This Declaration is directed to:

☐ The attached application

OR

☒ United States Application Number or PCT International Application

Number 18/349,347

filed on July 10, 2023

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;

Whereas, Slick Slide LLC, a limited liability company of United States of America, having a place of business at 4247 E. Casitas Del Rio, Phoenix, Arizona 85050 (herein referred to as the "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to the ASSIGNEE, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent,

and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the ASSIGNEE and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of United States of America, and any disputes will be resolved in a court sited in United States of America.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of Inventor: Gary Schmit

Inventor's Signature:



Date:

7/6/20

Residence

City/State/Country:

Phoenix, AZ, United States of America

Mailing Address:

2100 N Tatum, Suite 1630-925, Phoenix, Arizona 85050

Citizenship:

US



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING or 371(c) DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	TOT CLAIMS	IND CLAIMS
18/349,347	07/10/2023		1024	SSCO-03US	29	3

CONFIRMATION NO. 8412

26875

WOOD, HERRON & EVANS, LLP
600 VINE STREET
SUITE 2800
CINCINNATI, OH 45202

FILING RECEIPT



0000000059789226

Date Mailed: 07/28/2023

Receipt is acknowledged of this non-provisional utility patent application. The application will be taken up for examination in due course. Applicant will be notified as to the results of the examination. Any correspondence concerning the application must include the following identification information: the U.S. APPLICATION NUMBER, FILING DATE, NAME OF FIRST INVENTOR, and TITLE OF INVENTION. Fees transmitted by check or draft are subject to collection.

Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please submit a written request for a corrected Filing Receipt, including a properly marked-up ADS showing the changes with strike-through for deletions and underlining for additions. If you received a "Notice to File Missing Parts" or other Notice requiring a response for this application, please submit any request for correction to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections provided that the request is grantable.

Inventor(s)

Gary Schmit, Phoenix, AZ;

Applicant(s)

Slick Slide LLC, Phoenix, AZ;

Power of Attorney: None

Domestic Priority data as claimed by applicant

This appln claims benefit of 63/381,818 11/01/2022

Foreign Applications for which priority is claimed (You may be eligible to benefit from the **Patent Prosecution Highway** program at the USPTO. Please see <http://www.uspto.gov> for more information.) - None.

Foreign application information must be provided in an Application Data Sheet in order to constitute a claim to foreign priority. See 37 CFR 1.55 and 1.76.

Permission to Access Application via Priority Document Exchange: Yes

Permission to Access Search Results: Yes

Applicant may provide or rescind an authorization for access using Form PTO/SB/39 or Form PTO/SB/69 as appropriate.

If Required, Foreign Filing License Granted: 07/25/2023

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US 18/349,347**

Projected Publication Date: 05/02/2024

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

Preliminary Class

Statement under 37 CFR 1.55 or 1.78 for AIA (First Inventor to File) Transition Applications: No

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4258).

LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

SelectUSA

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The U.S. offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to promote and facilitate business investment. SelectUSA provides information assistance to the international investor community; serves as an ombudsman for existing and potential investors; advocates on behalf of U.S. cities, states, and regions competing for global investment; and counsels U.S. economic development organizations on investment attraction best practices. To learn more about why the United States is the best country in the world to develop technology, manufacture products, deliver services, and grow your business, visit <http://www.SelectUSA.gov> or call +1-202-482-6800.

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT8104895

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
GARY SCHMIT	07/06/2023
RECEIVING PARTY DATA	
Name:	SLICK SLIDE LLC
Street Address:	4247 E. CASITAS DEL RIO
City:	PHOENIX
State/Country:	ARIZONA
Postal Code:	85050
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	18349347
CORRESPONDENCE DATA	
Fax Number:	(513)241-6234
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	(513) 241-2324
Email:	retienne@whe-law.com
Correspondent Name:	LOUIS H. SITLER
Address Line 1:	600 VINE STREET
Address Line 2:	SUITE 2800
Address Line 4:	CINCINNATI, OHIO 45202
ATTORNEY DOCKET NUMBER:	SSCO-03US
NAME OF SUBMITTER:	LOUIS H. SITLER
SIGNATURE:	/LOUIS H. SITLER/
DATE SIGNED:	08/09/2023
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 2	
source=SSCO-03US Assignment#page1.tif	
source=SSCO-03US Assignment#page2.tif	

**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN PATENT APPLICATION
USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT**

Title of Invention: **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**

As the below named inventor, I hereby declare that:

This Declaration is directed to:

☐ The attached application

OR

☒ United States Application Number or PCT International Application

Number 18/349,347 filed on July 10, 2023

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;

Whereas, Slick Slide LLC, a limited liability company of United States of America, having a place of business at 4247 E. Casitas Del Rio, Phoenix, Arizona 85050 (herein referred to as the "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to the ASSIGNEE, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent,

and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the ASSIGNEE and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of United States of America, and any disputes will be resolved in a court sited in United States of America.

I hereby acknowledge that any willful false statement made in this Declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Legal name of Inventor: Gary Schmit

Inventor's Signature:



Date:

7/6/20

Residence

City/State/Country:

Phoenix, AZ, United States of America

Mailing Address:

2100 N Tatum, Suite 1630-925, Phoenix, Arizona 85050

Citizenship:

US

TRANSMITTAL FOR POWER OF ATTORNEY TO ONE OR MORE REGISTERED PRACTITIONERS

NOTE: This form is to be submitted with the Power of Attorney by Applicant form (PTO/AIA/82B) to identify the application to which the Power of Attorney is directed, in accordance with 37 CFR 1.5, unless the application number and filing date are identified in the Power of Attorney by Applicant form. If neither form PTO/AIA/82A nor form PTO/AIA/82B identifies the application to which the Power of Attorney is directed, the Power of Attorney will not be recognized in the application.

Application Number	18/349,347
Filing Date	July 10, 2023
First Named Inventor	Gary Schmit
Title	Low-Friction Recreational Slide System
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	SSCO-03US

SIGNATURE of Applicant or Patent Practitioner

Signature	/Louis H. Sitler/	Date (Optional)	08/09/2023
Name	Louis H. Sitler	Registration Number	81,818
Title (if Applicant is a juristic entity)	Attorney of Record		
Applicant Name (if Applicant is a juristic entity)	Slick Slide LLC		

NOTE: This form must be signed in accordance with 37 CFR 1.33. See 37 CFR 1.4(d) for signature requirements and certifications. If more than one applicant, use multiple forms.



*Total of 1 forms are submitted.

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995, unless the information collection has a currently valid OMB Control Number. The OMB Control Number for this information collection is 0651-0035. Public burden for this form is estimated to average 3 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief Administrative Officer, United States Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450 or email InformationCollection@uspto.gov. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.** If filing this completed form by mail, send to: **Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

POWER OF ATTORNEY BY APPLICANT

I hereby revoke all previous powers of attorney given in the application identified in either the attached transmittal letter or the boxes below.

Application Number	Filing Date

(Note: The boxes above may be left blank if information is provided on form PTO/AIA/82A.)

- ☒ I hereby appoint the Patent Practitioner(s) associated with the following Customer Number as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above: 26875
- OR**
- ☐ I hereby appoint Practitioner(s) named in the attached list (form PTO/AIA/82C) as my/our attorney(s) or agent(s), and to transact all business in the United States Patent and Trademark Office connected therewith for the patent application referenced in the attached transmittal letter (form PTO/AIA/82A) or identified above. (Note: Complete form PTO/AIA/82C.)

Please recognize or change the correspondence address for the application identified in the attached transmittal letter or the boxes above to:

- ☒ The address associated with the above-mentioned Customer Number

OR

- ☐ The address associated with Customer Number:

OR

- ☐ Firm or Individual Name

Address

City

State

Zip

Country

Telephone

Email

I am the Applicant (if the Applicant is a juristic entity, list the Applicant name in the box):

SLICK SLIDE LLC

- ☐ Inventor or Joint Inventor (title not required below)
- ☐ Legal Representative of a Deceased or Legally Incapacitated Inventor (title not required below)
- ☒ Assignee or Person to Whom the Inventor is Under an Obligation to Assign (provide signer's title if applicant is a juristic entity)
- ☐ Person Who Otherwise Shows Sufficient Proprietary Interest (e.g., a petition under 37 CFR 1.46(b)(2) was granted in the application or is concurrently being filed with this document) (provide signer's title if applicant is a juristic entity)

SIGNATURE of Applicant for Patent

The undersigned (whose title is supplied below) is authorized to act on behalf of the applicant (e.g., where the applicant is a juristic entity).

Signature

Date (Optional)

Name

Gary Schmit

Title

Owner

NOTE: Signature - This form must be signed by the applicant in accordance with 37 CFR 1.33. See 37 CFR 1.4 for signature requirements and certifications. If more than one applicant, use multiple forms.

- ☒ Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.131, 1.32, and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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Routine uses of the information in this record may include disclosure to: 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law; 2) a Federal, state, local, or international agency, in response to its request; 3) a contractor of the USPTO having need for the information in order to perform a contract; 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record; 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record; 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations; 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals; 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)); 9) the Office of Personnel Management (OPM) for personnel research purposes; and 9) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Additional Uses

Additional USPTO uses of the information in this record may include disclosure to: 1) the International Bureau of the World Intellectual Property Organization, if the record is related to an international application filed under the Patent Cooperation Treaty; 2) the public i) after publication of the application pursuant to 35 U.S.C. 122(b), ii) after issuance of a patent pursuant to 35 U.S.C. 151, iii) if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections, or an issued patent, or iv) without publication of the application or patent under the specific circumstances provided for by 37 CFR 1.14(a)(1)(v)-(vii); and/or 3) the National Archives and Records Administration, for inspection of records.



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Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NUMBER	FILING OR 371(C) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
18/349,347	07/10/2023	Gary Schmit	SSCO-03US

CONFIRMATION NO. 8412

POA ACCEPTANCE LETTER



OC000000060494944

26875
WOOD, HERRON & EVANS, LLP
600 VINE STREET
SUITE 2800
CINCINNATI, OH 45202

Date Mailed: 08/14/2023

NOTICE OF ACCEPTANCE OF POWER OF ATTORNEY

This is in response to the Power of Attorney filed 08/09/2023.

The Power of Attorney in this application is accepted. Correspondence in this application will be mailed to the above address as provided by 37 CFR 1.33.

Questions about the contents of this notice and the requirements it sets forth should be directed to the Office of Data Management, Application Assistance Unit, at (571) 272-4000 or (571) 272-4200 or 1-888-786-0101.

/byemane/



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412
26875 7590 08/23/2023 WOOD, HERRON & EVANS, LLP 600 VINE STREET SUITE 2800 CINCINNATI, OH 45202			EXAMINER	
			ART UNIT	PAPER NUMBER
			3711	
			NOTIFICATION DATE	DELIVERY MODE
			08/23/2023	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptodock@whe-law.com

<i>Decision Granting Request for Prioritized Examination (Track I)</i>	Application No. 18/349,347	Applicant(s) Schmit, Gary	
	Examiner CHERYL P GIBSON BAYLOR	Art Unit OPET	AIA (FITF) Status Yes
1. THE REQUEST FILED <u>10 July 2023</u> IS GRANTED . The above-identified application has met the requirements for prioritized examination A. ☒ for an original nonprovisional application (Track I). B. ☐ for an application undergoing continued examination (RCE). 2. The above-identified application will undergo prioritized examination. The application will be accorded special status throughout its entire course of prosecution until one of the following occurs: A. filing a <u>petition for extension of time</u> to extend the time period for filing a reply; B. filing an <u>amendment to amend the application to contain more than four independent claims, more than thirty total claims</u>, or a multiple dependent claim; C. filing a <u>request for continued examination</u> ; D. filing a notice of appeal; E. filing a request for suspension of action; F. mailing of a notice of allowance; G. mailing of a final Office action; H. completion of examination as defined in 37 CFR 41.102; or I. abandonment of the application. Telephone inquiries with regard to this decision should be directed to CHERYL GIBSON BAYLOR at (571)272-3213. In his/her absence, calls may be directed to Petition Help Desk at (571) 272-3282.			
/CHERYL GIBSON BAYLOR/ Paralegal Specialist, OPET			

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	5246401	A	1993-09-21	Boatwright, Albert			
If you wish to add additional U.S. Patent citation information please click the Add button.							Add	
U.S. PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
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FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	S4846776	JP	U	1973-06-19	Unknown		☒
	2	H0717293	JP	U	1995-03-28	Unknown		☒
	3	2023069789	WO	A2	2023-04-27	Goslide LLC		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
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	Attorney Docket Number	SSCO-03US	

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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵	
	1	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977: Search Report under Section 17, Application No. GB2314317.5, dated October 16, 2023 (1 page).	☐	
	2	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977, Combined Search and Examination Report under Sections 17 & 18(3), Application No. GB2314317.5, dated October 17, 2023 (3 pages).	☐	
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.				

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	Attorney Docket Number	SSCO-03US	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2023-10-25
Name/Print	Louis H. Sittler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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Doc description: Information Disclosure Statement (IDS) Filed

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	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1							
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	S4846776	JP	U	1973-06-19	Unknown		☒
	2	H0717293	JP	U	1995-03-28	Unknown		☒
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	1	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977: Search Report under Section 17, Application No. GB2314317.5, dated October 16, 2023 (1 page).		☐
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Examiner Signature				Date Considered
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.				

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Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2023-10-25
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

(19) 日本国特許庁 (J P)

(12) 公開実用新案公報 (U)

(11) 実用新案出願公開番号

実開平7-17293

(43) 公開日 平成7年(1995)3月28日

(51) Int.Cl.⁸
A 6 3 G 21/00

識別記号

庁内整理番号

F I

技術表示箇所

審査請求 未請求 請求項の数 3 F D (全 2 頁)

(21) 出願番号 実願平5-52334

(22) 出願日 平成5年(1993)8月31日

(71) 出願人 593179381

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1

(72) 考案者 宮下 方彦

広島市安佐南区祇園町大字東山本62番地の
1 西川物産株式会社内

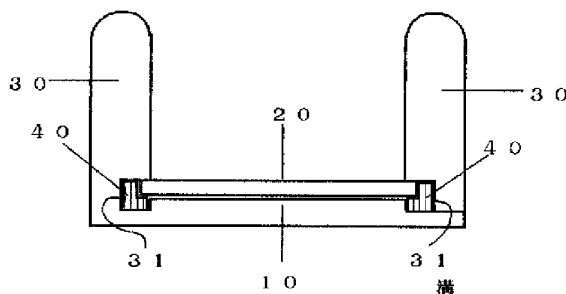
(74) 代理人 弁理士 古田 剛啓

(54) 【考案の名称】 滑り台

(57) 【要約】

【目的】 滑り心地がよく、耐久性・安全性に優れた公園施設遊具としての滑り台を提供する。

【構成】 公園施設遊具としての滑り台であって、上部と下部とを緩やかに、中間部を急にした傾斜底板10の上面に、例えば傾斜底板10に合わせて一体曲げ加工したところの超高分子量ポリエチレンまたは水架橋ポリエチレンよりなる滑り板20を張り、さらにその滑り板20の両側縁を、前記傾斜底板10両側に立設した手摺用立設側板30、30の内面且つ下部に設けた溝31、31に、ゴム様弾性体製吸伸材40を介して嵌着してなるものである。



【実用新案登録請求の範囲】

【請求項1】 傾斜底板（10）の上面に、滑り板（20）を張り、さらにその滑り板（20）の両側縁を、前記傾斜底板（10）両側に立設した手摺用立設側板（30、30）の内面且つ下部に設けた溝（31、31）に、吸伸材（40）を介して嵌着してなる滑り台。

【請求項2】 滑り板（20）が超高分子量ポリエチレン、或は水架橋ポリエチレンよりなる請求項1記載の滑り台。

【請求項3】 吸伸機（40）がスプリングまたはゴム様弾性体よりなる請求項1または2記載の滑り台。

【図面の簡単な説明】

【図1】 従来例を示す斜視図である。

【図2】 従来例を示す図1の断面図である。

【図3】 本考案の実施例を示す斜視図である。

【図4】 図3の断面図である。

【図5】 図4の吸伸材の第1実施態様を示す断面図であ

る。

【図6】 図4の吸伸材の第2実施態様を示す断面図である。

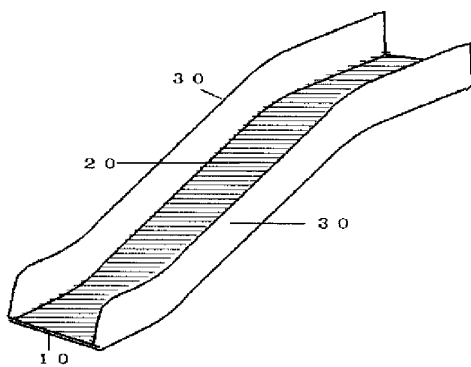
【図7】 図4の吸伸材の第3実施態様を示す断面図である。

【図8】 図4の吸伸材の第4実施態様を示す断面図である。

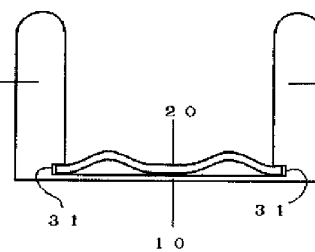
【符号の説明】

- 10 傾斜底板
- 20 滑り板
- 30 手摺用立設側板
- 31 溝
- 40 吸伸材
- 41 ゴム様弾性体
- 42 スプリング
- 50 マット

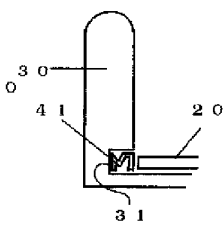
【図1】



【図2】

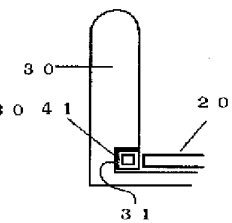
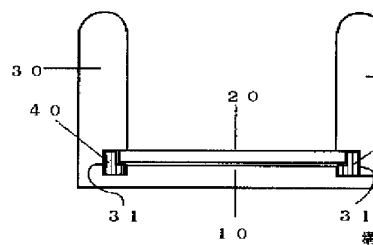


【図5】

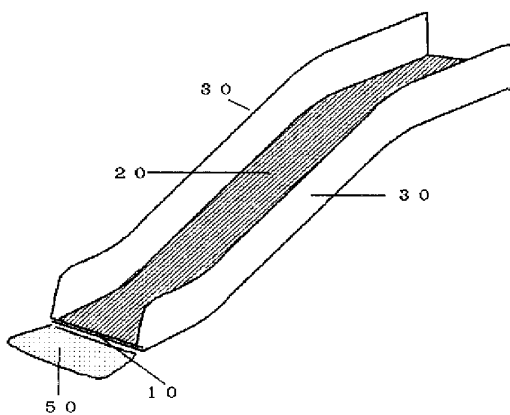


【図6】

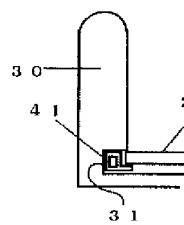
【図4】



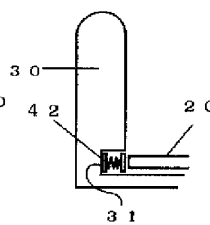
【図3】



【図7】



【図8】



【考案の詳細な説明】

【0001】

【産業上の利用分野】

本考案は、滑り台の改良に関するものである。

【0002】

【従来の技術】

図1・図2を参考にして説明する。従来、公園施設遊具である滑り台として、例えば、上部と下部とを緩やかに、中間部を急にした傾斜底板10の上面にベークライト・塩ビ等の樹脂製滑り板20を張り、その滑り板20を張った傾斜底板10の両側縁の全長に亘って手摺用立設側板30、30を立設したものが使用されている。また、傾斜底板10、滑り板20の代わりにステンレスパイプローラーを使用したものもある。

【0003】

しかしながら、上記従来の傾斜底板10の上面にベークライト・塩ビ等の樹脂製滑り板20を張った滑り台は、樹脂製滑り板20を曲げ加工せずに、傾斜底板10の上面に張って、手摺用立設側板30、30の溝31、31に嵌込むようにしているため取付が難しく、そのうえ、長時間使用しているうちに、図2に示すように滑り板20が外気の温度差を受けて湾曲し、凹凸を生ずると言う問題点がある。

【0004】

【考案が解決しようとする課題】

解決しようとする問題点は、上記従来の滑り台は、樹脂製滑り板20を曲げ加工せずに、傾斜底板10の上面に張って、手摺用立設側板30、30の溝31、31に嵌込むようにしているため取付が難しく、そのうえ、長時間使用しているうちに、図2に示すように滑り板20が外気の温度差を受けて湾曲し、凹凸を生ずることである。

【0005】

【課題を解決するための手段】

図3乃至図8を参考にして説明する。本考案は、傾斜底板10の上面に、超高

分子量ポリエチレンまたは水架橋ポリエチレンよりなる滑り板20を張り、さらにその滑り板20の両側縁を、前記傾斜底板10両側に立設した手摺用立設側板30、30の内面且つ下部に設けた溝31、31に、ゴム様弾性体製吸伸材40を介して嵌着してなるものである。

【0006】

【実施例】

本考案の一実施例として、公園施設遊具用滑り台について説明する。10は上部と下部とを緩やかに且つ中間部を急にした傾斜底板である。20は予め傾斜底板10の上面に合わせて一体曲げ加工したうえ、その上に張った滑り板であって超高分子量ポリエチレンまたは水架橋ポリエチレンよりなるが、必ずしもこれに限定されるものではない。30、30は前記傾斜底板10両側に立設した手摺用立設側板であって、その内面下部に設けた溝31、31に、温度変化に伴って発生する伸びを吸収するゴム様弾性体製吸伸材40を介して、前記滑り板20を嵌着してある。なお、吸伸材40としては、図5に示すようにM形状のゴム様弾性体41、図6に示すように角筒型のゴム様弾性体41、図7に示すように角筒に一片を付けたゴム様弾性体41、図8に示すようにスプリング42を用いてもよい。その他、50滑り板20の先端部に設けたゴム様弾性体のマットである。

【0007】

作用について説明すると、滑り板20は予め曲げ加工してあるため、手摺用立設側板30、30の溝31、31への嵌込みが極めて容易であり、そのうえ、滑り板20と手摺用立設側板30、30との間に吸伸材40を介在させてあるため、滑り板20は温度変化に伴って伸縮するが、過大な応力が発生することなく、従って、波打ち或は凹凸を生じることはない。なお、滑り板20の超高分子量ポリエチレンまたは水架橋ポリエチレンは、乾燥状態で摩擦係数が0.03～0.07（ベークライトの約1/20）と低く、耐摩耗性・耐寒性に優れていて、長期に亘って快適な滑りを楽しむことが出来る。さらに、先端にゴム様弾性体のマット50を設けると、利用する子供が地面に直接激突することがなく、安全性が向上する。又、滑り台の上部と下部との緩やかな部分が無く、同一状の傾斜の場合にも同様に活用出来る。

【0008】

【考案の効果】

本考案は以上のように構成されるため、滑り板20は、温度変化によって、波打ち或は凹凸を生じることなく、極めて滑り易く、耐久性・安全性に優れ、長期に亘って快適な滑りを楽しむことが出来る。

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)

Approved for use through 05/31/2024. OMB 0651-0031

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	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

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	1	2000141544	JP	A	2000-05-23	Nippon Dia Clevite Co		☒
	2	0046487	WO	A1	2000-08-10	Phillips, Forrest		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

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	1	EUROPEAN PATENT OFFICE, International Search Report and Written Opinion of the International Searching Authority, International Application No. PCT/US2023/069866, mailed October 17, 2023 (17 pages).		☐
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2023-11-02
Name/Print	Louis H. Sittler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412
26875 7590 11/08/2023 WOOD, HERRON & EVANS, LLP 600 VINE STREET SUITE 2800 CINCINNATI, OH 45202			EXAMINER CAMPANELLO, FRANCIS C	
			ART UNIT 1771	PAPER NUMBER
			NOTIFICATION DATE 11/08/2023	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

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usptodock@whe-law.com

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(b):

(b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 8 is rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which the inventor or a joint inventor (or for applications subject to pre-AIA 35 U.S.C. 112, the applicant), regards as the invention.
3. The phrase “dry lubricant material” is not present in independent claim 1, on which claim 8 depends.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103 which forms the basis for all obviousness rejections set forth in this Office action:

A patent for a claimed invention may not be obtained, notwithstanding that the claimed invention is not identically disclosed as set forth in section 102, if the differences between the claimed invention and the prior art are such that the claimed invention as a whole would have been obvious before the effective filing date of the claimed invention to a person having ordinary skill in the art to which the claimed invention pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries for establishing a background for determining obviousness under 35 U.S.C. 103 are summarized as follows:

1. Determining the scope and contents of the prior art.

2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
5. Claim(s) 1-7, 22, and 27-29 is/are rejected under 35 U.S.C. 103 as being unpatentable over Fallgatter et al (US 2023/0129814 A1).
6. Fallgatter teaches a recreational slide (abstract) that is non-wet. See abstract.
7. The body of the slide has a coefficient of friction of 0.3 or less, see p 42. The body is a layered weave with multiple layers, see p 42-44. A low-friction layer is preferably attached to the slide. The slide has a top and exit when deployed, see p 38. The slide may be shaped into any form desired by the surface it is on. As such the slide may include sidewalls (if shaped as such) with the lubricant layer deposited on the entire surface.
8. In a case where the claimed ranges overlap or lie inside ranges disclosed by the prior art a *prima facie* case of obviousness exists. See *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1946), and MPEP 2144.05.
9. A vehicle is included in the slide system, see p 46. This can be composed of weaved material the same or different than the slide material and molded with a handle. The lubricant surface may be a variety of materials both synthetic or not. See p 45-48. This constitutes a woven bottom.
10. Claim(s) 1-7, 14-15, 22-24, and 27-29 is/are rejected under 35 U.S.C. 103 as being unpatentable over Fallgatter et al (US 2023/0129814 A1) and Schumann et al (US 2016/0168805 A1).

11. To see what Fallgatter teaches please see above. Fallgatter does not teach if the threads or monofilament of the size of the threads.

12. Schumann teaches a sliding mat for humans to slide on for recreation, see abstract. The mat is a mesh composed of weft threads. The threads are monofilament threads.

13. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the mat weave of Schumann in the invention of Fallgatter. Fallgatter already calls for use of a mesh low friction material on the bottom the slide vehicle and the mesh of Schumann has the advantage of having a low coefficient of friction and being an effective sliding surface.

14. Claim(s) 1-11, 18-22, and 27-29 is/are rejected under 35 U.S.C. 103 as being unpatentable over Fallgatter et al (US 2023/0129814 A1) and Hirokawa.(US 5427698).

15. To see what Fallgatter teaches please see above. Fallgatter does not specifically state the amount of resin and lubricant in the lubricating layer.

16. Hirokawa teaches a coating composition used for lubrication, see abstract. The lubricant is used on any surface needing lubrication.

17. The lubricant contains the following:

18. A. A silicon epoxy resin used in the amount of 100 parts. See column 2 lines 34-55.

19. B. An amine resin used in the amount of 20-100 parts. See column 2 lines 34-55.

20. This constitutes the hardener.

21. C. A combination of solid lubricants used in the amount of 10 to 80% of the composition, see column 2 line 65 to column 3 line 10. The solid lubricants include PTFE (column 2 line 55-60).

22. Other solid lubricants are used that can be considered a thermal conductor. The examiner notes that a thermal conductor is defined as any material that allows energy in the form of heat to be transferred in the material. The specification does not define what amount of conduction is required to be present in the material. These other solid lubricant may then be considered the conductor, as this include metal materials. See column 3 lines 5-22 and column 2 lines 55-65 for the list of solid lubricants.

23. It would have been obvious to one of ordinary skill in the art at the time of the invention to use the lubricant of Hirokawa as the lubricant layer on the slide of Fallgatter. Fallgatter already calls for use of a thin lubricant layer, an the lubricant of Hirokawa has the advantage of being an effective lubricant that prevents abrasion. See column 1 lines 15-20.

Allowable Subject Matter

24. Claims 12, 16-17 and 25-36 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

25. Regarding claim 12 the thermal conductor being copper is not taught.

26. Regarding claims 16-17 and 25-26, the amount of interstitial openings and the size of the diameter of the thread as claimed is not taught in the prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANK C CAMPANELL whose telephone number is (571)270-3165. The examiner can normally be reached Monday-Friday 9:00-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Prem Singh can be reached on 571-272-6381. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FRANCIS C CAMPANELL/
Examiner, Art Unit 1771

Application/Control Number: 18/349,347
Art Unit: 1771

Page 7

/PREM C SINGH/
Supervisory Patent Examiner, Art Unit 1771

<i>Notice of References Cited</i>	Application/Control No. 18/349,347		Applicant(s)/Patent Under Reexamination Schmit, Gary	
	Examiner FRANK C CAMPANELL		Art Unit 1771	Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	CPC Classification	US Classification
*	A	US-20160168805-A1	06-2016	Schumann; Arndt	D03D13/004	280/18
*	B	US-5427698-A	06-1995	Hirokawa; Yoshiyuki	C10M169/044	508/106
*	C	US 2023/0129814 A1	03-2023	Fallgatter		
	D					
	E					
	F					
	G					
	H					
	I					
	J					
	K					
	L					
	M					

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	CPC Classification
*	N	WO-2023069789-A2	04-2023	WO	FALLGATTER J	A63G21/02
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<i>Search Notes</i> 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

CPC - Searched*		
Symbol	Date	Examiner
A63G21/02 OR C10M107/38 OR C10M107/50 OR C10M125/04 OR C10M169/04 OR C10M2201/05 OR C10M2213/0623 OR C10M2229 /0475 OR C10N2050/023).cpc.	11/02/2023	FCC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
472	88	11/02/2023	FCC

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor and assignee search done. See search history for text modification of cpc and class searches.	11/02/2023	FCC

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771	/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771
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<i>Index of Claims</i> 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS										
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47										
CLAIM			DATE							
Final	Original	11/02/2023								
	1	✓								
	2	✓								
	3	✓								
	4	✓								
	5	✓								
	6	✓								
	7	✓								
	8	✓								
	9	✓								
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	23	✓								
	24	✓								
	25	○								
	26	○								
	27	✓								
	28	✓								
	29	✓								

Bibliographic Data

Application No: 18/349,347

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged:

/FRANCIS C CAMPANELL/

Examiner's Signature

Initials

Title:

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/10/2023	472	1771	SSCO-03US
RULE			

APPLICANTS

Slick Slide LLC, Phoenix, AZ, UNITED STATES

INVENTORS

Mr. Gary Schmit, Phoenix, AZ, UNITED STATES

CONTINUING DATA

This application has PRO of 63381818 11/01/2022

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/25/2023

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

WOOD, HERRON & EVANS, LLP
600 VINE STREET
SUITE 2800
CINCINNATI, OH 45202
UNITED STATES

FILING FEE RECEIVED

\$2,760

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	175	472/88.ccls.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/10/26 05:28 PM
L2	99	472/80.ccls.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/10/26 06:24 PM
L3	124	472/81.ccls.	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/10/26 08:17 PM
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L6	5	(gary near3 schmit).in.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/01 05:01 PM
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L22	2932	(slide OR sled).ab. AND (weft SAME thread)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB,	OR	ON	ON	2023/11/02 06:33 PM

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L29	0	"508".clas. AND (sliding).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:52 PM

L30	0	AND (resin OR epoxy) AND (recreation OR recreational) "508".clas. AND (sliding).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND (recreation OR recreational)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:53 PM
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L32	273	(sliding near3 surface).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 07:00 PM
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L34	37	(copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND hardner	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 07:02 PM
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PE2E SEARCH - Search History (Interference)

There are no Interference searches to show.

Receipt date: 11/02/2023

18/349,347 - GAU: 1771

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
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U.S. PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	20070225178	A1	2007-09-27	Sawyer et al.			
	2	20150314203	A1	2015-11-05	Hunter, Richard D.			
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Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	2000141544	JP	A	2000-05-23	Nippon Dia Clevite Co		☒
	2	0046487	WO	A1	2000-08-10	Phillips, Forrest		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

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	1	EUROPEAN PATENT OFFICE, International Search Report and Written Opinion of the International Searching Authority, International Application No. PCT/US2023/069866, mailed October 17, 2023 (17 pages).		☐
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.				

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	18349347
Filing Date	2023-07-10
First Named Inventor	Gary Schmit
Art Unit	1771
Examiner Name	Campanell, Francis C.
Attorney Docket Number	SSCO-03US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

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- ☐ See attached certification statement.
- ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2023-11-02
Name/Print	Louis H. Sittler	Registration Number	81,818

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3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
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Receipt date: 10/25/2023

18/349,347 - GAU: 1771

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

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	1	S4846776	JP	U	1973-06-19	Unknown		☒
	2	H0717293	JP	U	1995-03-28	Unknown		☒
	3	2023069789	WO	A2	2023-04-27	Goslide LLC		☐

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	1	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977: Search Report under Section 17, Application No. GB2314317.5, dated October 16, 2023 (1 page).	☐	
	2	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977, Combined Search and Examination Report under Sections 17 & 18(3), Application No. GB2314317.5, dated October 17, 2023 (3 pages).	☐	
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Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2023-10-25
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(19) 日本国特許庁 (J P)

(12) 公開実用新案公報 (U)

(11) 実用新案出願公開番号

実開平7-17293

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(51) Int.Cl.⁶
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識別記号 庁内整理番号

F I

技術表示箇所

審査請求 未請求 請求項の数 3 F D (全 2 頁)

(21) 出願番号 実願平5-52334

(22) 出願日 平成5年(1993)8月31日

(71) 出願人 593179381

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1

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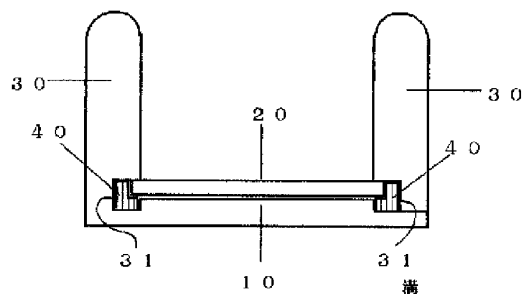
(74) 代理人 弁理士 古田 剛啓

(54) 【考案の名称】 滑り台

(57) 【要約】

【目的】 滑り心地がよく、耐久性・安全性に優れた公園施設遊具としての滑り台を提供する。

【構成】 公園施設遊具としての滑り台であって、上部と下部とを緩やかに、中間部を急にした傾斜底板10の上面に、例えば傾斜底板10に合わせて一体曲げ加工したところの超高分子量ポリエチレンまたは水架橋ポリエチレンよりなる滑り板20を張り、さらにその滑り板20の両側縁を、前記傾斜底板10両側に立設した手摺用立設側板30、30の内面且つ下部に設けた溝31、31に、ゴム様弾性体製吸伸材40を介して嵌着してなるものである。



(2)

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【実用新案登録請求の範囲】

【請求項1】 傾斜底板（10）の上面に、滑り板（20）を張り、さらにその滑り板（20）の両側縁を、前記傾斜底板（10）両側に立設した手摺用立設側板（30、30）の内面且つ下部に設けた溝（31、31）に、吸伸材（40）を介して嵌着してなる滑り台。

【請求項2】 滑り板（20）が超高分子量ポリエチレン、或は水架橋ポリエチレンよりなる請求項1記載の滑り台。

【請求項3】 吸伸機（40）がスプリングまたはゴム様弾性体よりなる請求項1または2記載の滑り台。

【図面の簡単な説明】

【図1】 従来例を示す斜視図である。

【図2】 従来例を示す図1の断面図である。

【図3】 本考案の実施例を示す斜視図である。

【図4】 図3の断面図である。

【図5】 図4の吸伸材の第1実施態様を示す断面図であ

る。

【図6】 図4の吸伸材の第2実施態様を示す断面図である。

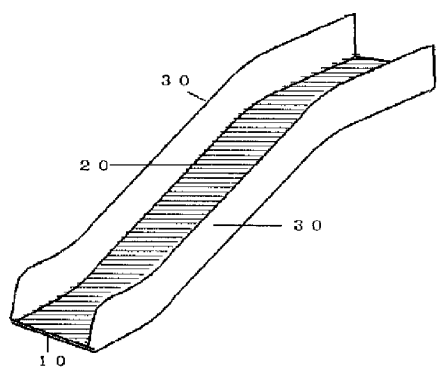
【図7】 図4の吸伸材の第3実施態様を示す断面図である。

【図8】 図4の吸伸材の第4実施態様を示す断面図である。

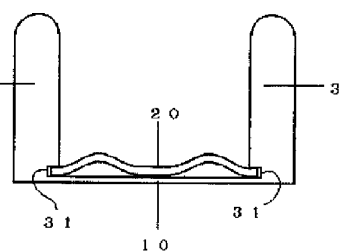
【符号の説明】

- 10 傾斜底板
- 20 滑り板
- 30 手摺用立設側板
- 31 溝
- 40 吸伸材
- 41 ゴム様弾性体
- 42 スプリング
- 50 マット

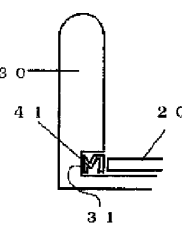
【図1】



【図2】

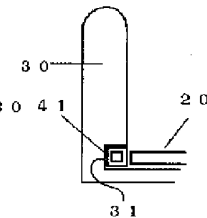
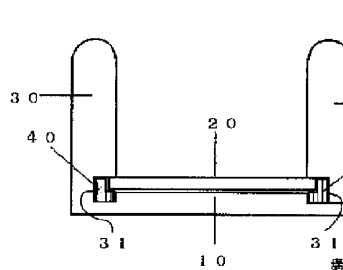


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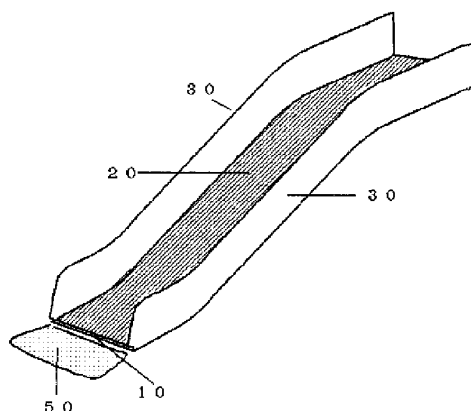


【図6】

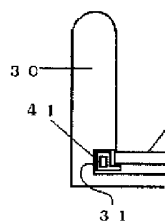
【図4】



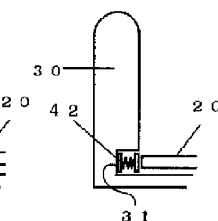
【図3】



【図7】



【図8】



(3)

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【考案の詳細な説明】

【0001】

【産業上の利用分野】

本考案は、滑り台の改良に関するものである。

【0002】

【従来の技術】

図1・図2を参考にして説明する。従来、公園施設遊具である滑り台として、例えば、上部と下部とを緩やかに、中間部を急にした傾斜底板10の上面にベークライト・塩ビ等の樹脂製滑り板20を張り、その滑り板20を張った傾斜底板10の両側縁の全長に亘って手摺用立設側板30、30を立設したものが使用されている。また、傾斜底板10、滑り板20の代わりにステンレスパイプローラーを使用したものもある。

【0003】

しかしながら、上記従来の傾斜底板10の上面にベークライト・塩ビ等の樹脂製滑り板20を張った滑り台は、樹脂製滑り板20を曲げ加工せずに、傾斜底板10の上面に張って、手摺用立設側板30、30の溝31、31に嵌込むようにしているため取付が難しく、そのうえ、長時間使用しているうちに、図2に示すように滑り板20が外気の温度差を受けて湾曲し、凹凸を生ずると言う問題点がある。

【0004】

【考案が解決しようとする課題】

解決しようとする問題点は、上記従来の滑り台は、樹脂製滑り板20を曲げ加工せずに、傾斜底板10の上面に張って、手摺用立設側板30、30の溝31、31に嵌込むようにしているため取付が難しく、そのうえ、長時間使用しているうちに、図2に示すように滑り板20が外気の温度差を受けて湾曲し、凹凸を生ずることである。

【0005】

【課題を解決するための手段】

図3乃至図8を参考にして説明する。本考案は、傾斜底板10の上面に、超高

(4)

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分子量ポリエチレンまたは水架橋ポリエチレンよりなる滑り板20を張り、さらにその滑り板20の両側縁を、前記傾斜底板10両側に立設した手摺用立設側板30, 30の内面且つ下部に設けた溝31, 31に、ゴム様弾性体製吸伸材40を介して嵌着してなるものである。

【0006】

【実施例】

本考案の一実施例として、公園施設遊具用滑り台について説明する。10は上部と下部とを緩やかに且つ中間部を急にした傾斜底板である。20は予め傾斜底板10の上面に合わせて一体曲げ加工したうえ、その上に張った滑り板であって超高分子量ポリエチレンまたは水架橋ポリエチレンよりなるが、必ずしもこれに限定されるものではない。30, 30は前記傾斜底板10両側に立設した手摺用立設側板であって、その内面下部に設けた溝31, 31に、温度変化に伴って発生する伸びを吸収するゴム様弾性体製吸伸材40を介して、前記滑り板20を嵌着してある。なお、吸伸材40としては、図5に示すようにM形状のゴム様弾性体41、図6に示すように角筒型のゴム様弾性体41、図7に示すように角筒に一片を付けたゴム様弾性体41、図8に示すようにスプリング42を用いてもよい。その他、50滑り板20の先端部に設けたゴム様弾性体のマットである。

【0007】

作用について説明すると、滑り板20は予め曲げ加工してあるため、手摺用立設側板30, 30の溝31, 31への嵌込みが極めて容易であり、そのうえ、滑り板20と手摺用立設側板30, 30との間に吸伸材40を介在させてあるため、滑り板20は温度変化に伴って伸縮するが、過大な応力が発生することなく、従って、波打ち或は凹凸を生じることはない。なお、滑り板20の超高分子量ポリエチレンまたは水架橋ポリエチレンは、乾燥状態で摩擦係数が0.03~0.07(ベークライトの約1/20)と低く、耐摩耗性・耐寒性に優れていて、長期に亘って快適な滑りを楽しむことが出来る。さらに、先端にゴム様弾性体のマット50を設けると、利用する子供が地面に直接激突することがなく、安全性が向上する。又、滑り台の上部と下部との緩やかな部分が無く、同一状の傾斜の場合にも同様に活用出来る。

(5)

実開平7-17293

【 0 0 0 8 】

【 考 案 の 効 果 】

本考案は以上のように構成されるため、滑り板20は、温度変化によって、波打ち或は凹凸を生じることなく、極めて滑り易く、耐久性・安全性に優れ、長期に亘って快適な滑りを楽しむことが出来る。

Receipt date: 10/25/2023

18/349,347 - GAU: 1771

Doc code: IDS

PTO/SB/08a (01-22)

Doc description: Information Disclosure Statement (IDS) Filed

Approved for use through 05/31/2024. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

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	3	2023069789	WO	A2	2023-04-27	Goslide LLC		☐

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
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	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

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	1	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977: Search Report under Section 17, Application No. GB2314317.5, dated October 16, 2023 (1 page).	☐	
	2	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977, Combined Search and Examination Report under Sections 17 & 18(3), Application No. GB2314317.5, dated October 17, 2023 (3 pages).	☐	
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¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.				

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

Application Number	18349347
Filing Date	2023-07-10
First Named Inventor	Gary Schmit
Art Unit	1771
Examiner Name	Campanell, Francis C.
Attorney Docket Number	SSCO-03US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

- ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

- ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

- ☐ See attached certification statement.
- ☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.
- ☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2023-10-25
Name/Print	Louis H. Sittler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412
26875 7590 12/14/2023 WOOD, HERRON & EVANS, LLP 600 VINE STREET SUITE 2800 CINCINNATI, OH 45202			EXAMINER CAMPANELLO, FRANCIS C	
			ART UNIT 1771	PAPER NUMBER
			NOTIFICATION DATE 12/14/2023	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptodock@whe-law.com

<i>Applicant-Initiated Interview Summary</i>	Application No. 18/349,347	Applicant(s) Schmit, Gary		
	Examiner FRANK C CAMPANELL	Art Unit 1771	AIA (First Inventor to File) Status Yes	Page 1 of 1

All Participants (applicant, applicants representative, PTO personnel)	Title	Type
FRANK C CAMPANELL	Examiner	Telephonic
DAVID BRINKMAN	Attorney	

Date of Interview: 08 December 2023

Issues Discussed:

35 U.S.C. 103

Possible arguments to overcome the current prior art were discussed. Specifically 3 distinct ways where the prior art may not teach the required coefficient of friction as found in the claim limitations. No agreement was reached as further intensive review of the prior art is needed when the arguments are submitted in writing.

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771	/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771
Applicant is reminded that a complete written statement as to the substance of the interview must be made of record in the application file. It is the applicants responsibility to provide the written statement, unless the interview was initiated by the Examiner and the Examiner has indicated that a written summary will be provided. See MPEP 713.04 Please further see: MPEP 713.04 Title 37 Code of Federal Regulations (CFR) § 1.133 Interviews, paragraph (b) 37 CFR § 1.2 Business to be transacted in writing	

Applicant recordation instructions: The formal written reply to the last Office action must include the substance of the interview. (See MPEP section 713.04). If a reply to the last Office action has already been filed, applicant is given a non-extendable period of the longer of one month or thirty days from this interview date, or the mailing date of this interview summary form, whichever is later, to file a statement of the substance of the interview.

Examiner recordation instructions: Examiners must summarize the substance of any interview of record. A complete and proper recordation of the substance of an interview should include the items listed in MPEP 713.04 for complete and proper recordation including the identification of the general thrust of each argument or issue discussed, a general indication of any other pertinent matters discussed regarding patentability and the general results or outcome of the interview, to include an indication as to whether or not agreement was reached on the issues raised.

**CERTIFICATE OF ELECTRONIC
TRANSMISSION**

I hereby certify that this correspondence for Application No. 18/349,347 is being electronically transmitted to the U.S. Patent and Trademark Office, Technology Center 1771, via EFS-WEB, on January 4, 2024.

/Louis H. Sitler/ 1/4/24
Louis H. Sitler, Reg. No. 81,818 Date

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Gary Schmit
Serial No. : 18/349,347
Filed : July 10, 2023
Confirmation No. : 8412
Group Art Unit : 1771
Examiner : Campanell, Francis C.
Title : **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**
Attorney Docket No. : SSCO-03US

Cincinnati, OH

January 4, 2024

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

RESPONSE TO NON-FINAL OFFICE ACTION

In response to the non-final Office Action dated November 8, 2023, please amend the above-identified application as follows:

Amendments to the Claims begin on page 2 of this paper.

Remarks/Arguments begin on page 9 of this paper.

This listing of claims will replace all prior versions, and listings, of claims in the application.

In the Claims:

1. (Original) A recreational slide system, comprising:

a slide including a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide; and

a ride vehicle configured to support a rider down the slide, the ride vehicle including a top surface configured to contact the rider and a mesh layer that forms a bottom surface configured to contact the slide surface;

wherein a coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface is within a range of between about 0.03 to about 0.2.

2. (Original) The recreational slide system of claim 1, wherein the coefficient of friction is kinetic coefficient of friction.

3. (Original) The recreational slide system of claim 1, wherein the slide surface includes a dry lubricant material.

4. (Original) The recreational slide system of claim 3, wherein the dry lubricant material comprises a dry lubricant coating over the slide surface.

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5. (Original) The recreational slide system of claim 4, wherein the dry lubricant coating includes a thickness that is within a range of between about 1 micron to about 5 micron.

6. (Original) The recreational slide system of claim 4, wherein the slide body includes a base wall and a pair of sidewalls and the dry lubricant coating covers a sliding surface of the base wall.

7. (Original) The recreational slide system of claim 6, wherein the dry lubricant coating covers at least a portion of the pair of sidewalls.

8. (Currently Amended) The recreational slide system of claim 3 ~~[[1]]~~, wherein the dry lubricant material includes a resin, a lubricant, a thermal conductor, and a hardener.

9. (Original) The recreational slide system of claim 8, wherein the dry lubricant material applied to the slide surface comprises:

20% to 30% by weight of the resin;

30% to 50% by weight of the lubricant;

1% to 5% by weight of the thermal conductor; and

20% to 30% by weight of the hardener.

10. (Original) The recreational slide system of claim 9, wherein the resin comprises a silicon-based epoxy resin.

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11. (Original) The recreational slide system of claim 9, wherein the lubricant comprises polytetrafluoroethylene.

12. (Original) The recreational slide system of claim 9, wherein the thermal conductor comprises copper.

13. (Original) The recreational slide system of claim 9, wherein the hardener comprises an anhydride-based or an amine-based catalyst.

14. (Original) The recreational slide system of claim 1, wherein the mesh layer of the ride vehicle comprises a weave of threads formed of monofilament synthetic fibers.

15. (Original) The recreational slide system of claim 14, wherein the monofilament synthetic fibers comprise a polyamide monofilament structure.

16. (Original) The recreational slide system of claim 14, wherein the weave of threads comprises a plurality of weft threads each having a thread diameter within a range of between 0.1mm to 0.6mm and a plurality of warp threads each having a thread diameter within a range of between about 0.1mm to about 0.6mm.

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17. (Original) The recreational slide system of claim 14, wherein the mesh layer includes a plurality of interstitial openings that define an open area of the mesh layer, wherein the open area of the mesh layer is within a range of between about 35% to about 50%.

18. (Currently Amended) A non-wet lubricated recreational slide, comprising:
a slide body with a slide surface that extends between a top entrance of the slide and a bottom exit of the slide, the slide surface including a dry lubricant coating comprising a resin, a lubricant, a thermal conductor, and a hardener;
wherein the thermal conductor comprises copper.

19. (Original) The non-wet lubricated recreational slide of claim 18, wherein the dry lubricant coating comprises:

- 20% to 30% by weight of the resin;
- 30% to 50% by weight of the lubricant;
- 1% to 5% by weight of the thermal conductor; and
- 20% to 30% by weight of the hardener.

20. (Original) The non-wet lubricated recreational slide of claim 18, wherein the slide body includes a base wall and a pair of sidewalls and the dry lubricant coating covers a sliding surface of the base wall.

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21. (Original) The non-wet lubricated recreational slide of claim 20, wherein the dry lubricant coating covers at least a portion of a sliding surface of the pair of sidewalls.

22. (Currently Amended) A ride vehicle configured to support a rider down a non-wet lubricated recreational slide, the ride vehicle comprising:

an elongate body that extends between a first end and an opposite second end, the body including a central core positioned between a top surface of the ride vehicle and a woven mesh layer that forms a bottom surface of the ride vehicle that is configured to contact the non-wet lubricated recreational slide; ~~[[and]]~~

~~at least one handle attached to the fabric layer~~

wherein the mesh layer includes a plurality of interstitial openings that define an open area of the mesh layer, wherein the open area of the mesh layer is within a range of between about 35% to about 50%.

23. (Original) The ride vehicle of claim 22, wherein the woven mesh layer comprises a weave of threads formed of monofilament synthetic fibers.

24. (Original) The ride vehicle of claim 22, wherein the monofilament synthetic fibers comprise a polyamide monofilament structure.

25. Canceled.

Application No. 18/349,347

26. (Currently Amended) ~~The ride vehicle of claim 22,~~ A ride vehicle configured to support a rider down a non-wet lubricated recreational slide, the ride vehicle comprising:

an elongate body that extends between a first end and an opposite second end, the body including a central core positioned between a top surface of the ride vehicle and a woven mesh layer that forms a bottom surface of the ride vehicle that is configured to contact the non-wet lubricated recreational slide;

wherein the mesh layer includes a plurality of weft threads each having a thread diameter within a range of between 0.1mm to 0.6mm and a plurality of warp threads each having a thread diameter within a range of between about 0.1mm to about 0.6mm.

27. (Original) The ride vehicle of claim 22, wherein the central core is surrounded by a fabric liner that is positioned between the central core and the fabric layer and the woven mesh layer.

28. (Original) A recreational slide system, comprising:

the ride vehicle of claim 22; and

a slide including a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide;

wherein a coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface is within a range of between about 0.03 to about 0.2.

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29. (Original) The recreational slide system of claim 28, wherein the coefficient of friction is kinetic coefficient of friction.

REMARKS

This Amendment is submitted in response to the Office Action mailed on November 8, 2023. Claims 8, 18, 22, and 26 have been amended, and claim 25 canceled. Claims 1-24 and 26-29 are now pending in the present application and subject to examination. Applicant notes and appreciates the Examiner's indication of the allowability of claims 12, 16, 17, 25, and 26 if written in independent form. In view of the foregoing amendments, as well as the following remarks, Applicant respectfully submits that this application is in complete condition for allowance and requests reconsideration of the application in this regard.

Telephonic Interview

Applicant thanks Examiner Campanell for the courtesies extended to the Applicant's representatives during an interview conducted on Friday, December 8, 2023. During the course of the Interview, arguments with respect to Fallgatter et al., U.S. Patent Application Publication No. 2023/0129814, were presented and discussed. The Examiner indicated that the arguments presented were persuasive, but that further consideration would be required. Accordingly, Applicant presents those same arguments herein.

Claim Rejections Under 35 U.S.C. §112

Claim 8 stands rejected under 35 U.S.C. §112(b) as allegedly being indefinite. As the Examiner will note, Applicant has amended claim 8 to depend from claim 3, thereby providing antecedent basis for the phrase "dry lubricant material." Accordingly, Applicant respectfully requests that the rejection of claim 8 under 35 U.S.C. §112(b) be withdrawn.

Claim Rejections Under 35 U.S.C. §103

Claims 1-7, 22 and 27-29 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Fallgatter et al., U.S. Patent Application Publication No. 2023/0129814 ("Fallgatter"). Claims 1-7, 14-15, 22-24 and 27-29 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Fallgatter et al. and Schumann et al., U.S. Patent Application Publication No. 2016/0168805 ("Schumann"). Lastly, claims 1-11, 18-22 and 27-29 stand rejected under 35 U.S.C. §103 as allegedly being unpatentable over Fallgatter et al. and Hirokawa et al., U.S. Patent No. 5,427,698 ("Hirokawa"). Applicant respectfully traverses these rejections for the reasons that follow.

Independent Claim 1

The Examiner relies primarily on Fallgatter to reject independent claim 1. Fallgatter is directed to a portable dry recreational slide that can be stored and transported in a compacted configuration, such as in a backpack. The Fallgatter slide includes a slide body made of a supple textile substrate and having a friction-reducing coating deposited on the textile substrate. The friction-reducing coating defines the sliding surface. The Fallgatter slide is non-rigid, designed to conform to the shape of the underlying support surface on which it is arranged, such as a hillside. Fallgatter teaches the use of several different types of ride vehicles with the slide, as will be described below where pertinent. Applicant submits that Fallgatter fails to disclose or render obvious the subject matter of independent claim 1 for the reasons that follow.

Firstly, in formulating the rejection of independent claim 1 on page 3 of the Office Action, the Examiner contends that the body of the slide has a coefficient of

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friction (“CoF”) of 0.3 or less, citing to paragraph [0042] of Fallgatter. However, Fallgatter only arbitrarily discloses a CoF of the low friction coating of the slide rather than a CoF *between* two surfaces, as recited in claim 1. For example, paragraph [0042] of Fallgatter describes, “[p]referably, the low-friction coating 54 has a static coefficient of friction less than 0.30, more preferably less than about 0.25, and even more preferably about 0.21 or less.” Indeed, there is no disclosure in Fallgatter regarding the specific surfaces, etc., between which the CoF applies. In that regard, a person skilled in the art would recognize CoF as a measurement of frictional forces between two surfaces. Yet, Fallgatter fails to provide context for the disclosed CoF value, making any assertion regarding the specific surfaces to which the disclosed CoF range applies a matter of mere speculation or conjecture.

Furthermore, Fallgatter discloses the use of various configurations of a ride vehicle with the slide. For example, in paragraph [0048], Fallgatter teaches that the ride vehicle may be formed of “foam,” “cardboard,” or “plastics,” in addition to other materials taught throughout the disclosure, each of which would have a different CoF when engaged with surfaces of the slide. Thus, it is unclear as to what materials the CoF values disclosed in Fallgatter apply. Certainly, there is no teaching in Fallgatter that the disclosed CoF range pertains to frictional forces specifically between a low-friction coated slide surface and a mesh layer within the range of about 0.03 to about 0.2, as recited in claim 1. For at least this reason, Applicant submits that Fallgatter fails to disclose or render obvious the subject matter of independent claim 1.

Secondly, while Fallgatter does disclose a textile ride vehicle, Fallgatter teaches that the bottom surface of the textile ride vehicle is coated with the low-friction

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coating.¹ For example, as detailed in paragraph [0046], “[w]hen a rider uses the textile vehicle 60, the low-friction bottom surface 62 of the textile vehicle 60 slides over the low-friction slide surface 30, providing enhanced sliding performance.” To that end, there is no teaching in Fallgatter of forming the bottom of the textile ride vehicle using a mesh layer, such that a CoF measurement is between the mesh layer and the slide surface.

Moreover, in paragraph [0016], Fallgatter teaches that the friction-reducing coating has a CoF lower than both the CoF of the textile substrate and about 0.25.² Assuming, *arguendo*, that the bottom of the ride vehicle is uncoated, this implies that any CoF between the slide surface of Fallgatter and the textile of the ride vehicle must be greater than 0.25 and outside of the range recited in claim 1, which only extends to about 0.2. That is, a CoF between the mesh layer and the low-friction slide surface of Fallgatter must be greater than 0.25. For at least these additional reasons, Applicant submits that Fallgatter fails to disclose or render obvious the subject matter of independent claim 1. As such, Applicant respectfully requests the withdrawal of the rejection of claim 1.

On page 4 of the Office Action, the Examiner admits that Fallgatter fails to teach threads or monofilament of the size of threads, and turns to Schumann. However, Schumann fails to cure the above-noted deficiencies of Fallgatter. Accordingly, Applicant submits that claim 1 is allowable over Fallgatter in view of Schumann. As

¹ “[A] bottom surface 62 of the textile vehicle 60 comprises a low friction coating 54.” Fallgatter at paragraph [0046].

² See paragraph [0016], last sentence.

Application No. 18/349,347

such, Applicant respectfully requests the withdrawal of the rejection of claim 1 in view of these references.

On page 4 of the Office Action, the Examiner admits that Fallgatter fails to teach the amount of resin and lubricant in the lubricating layer, and turns to Hirokawa. However, Hirokawa fails to cure the above-noted deficiencies of Fallgatter. Accordingly, Applicant submits that claim 1 is allowable over Fallgatter in view of Hirokawa. As such, Applicant respectfully requests the withdrawal of the rejection of claim 1 in view of these references.

Finally, as claims 2-17 depend from allowable independent claim 1, and further as each of these claims recites a combination of elements not fairly taught or suggested by the prior art of record, Applicant submits that these claims are allowable over Fallgatter taken alone, or in combination with Schumann and/or Hirokawa.

Independent Claim 18

As the Examiner will note, Applicant has amended independent claim 18 to further recite, as part of the claimed combination of elements, “wherein the thermal conductor comprises copper.” On page 5 of the Office Action, the Examiner submits that the prior art fails to teach the thermal conductor being copper. Accordingly, Applicant respectfully submits that claim 18 is allowable.

Moreover, as claims 19-21 depend from allowable independent claim 18, and further as each of these claims recites a combination of elements not fairly taught or suggested by the prior art of record, Applicant submits that these claims are allowable over Fallgatter taken alone, or in combination with Schumann and/or Hirokawa.

Independent Claim 22

As the Examiner will note, Applicant has amended independent claim 22 to further recite, as part of the claimed combination of elements, the allowable subject matter of dependent claim 25, which has been canceled herein. As the Examiner will also note, Applicant amended the claim to remove the “at least one handle” recitation. Accordingly, Applicant respectfully submits that claim 22 is allowable.

Moreover, as claims 23, 24, and 26-29 depend from allowable independent claim 22, and further as each of these claims recites a combination of elements not fairly taught or suggested by the prior art of record, Applicant submits that these claims are allowable over Fallgatter taken alone, or in combination with Schumann and/or Hirokawa.

Allowable Subject Matter

Applicant notes and appreciates the Examiner’s indication that claims 12, 16, 17, 25, and 26 would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.³ In view of the above, Applicant has not rewritten claims 12, 16, or 17 into independent form at this time, but Applicant reserves the right to do so at a later time.

With respect to claim 25, Applicant has amended claim 22 to include the subject matter of claim 25, which has been canceled herein, as described above.

With respect to claim 26, Applicant has amended the claim to be in independent form by incorporating the subject matter of original claim 22. As the

³ See Office Action at p. 5.

Application No. 18/349,347

Examiner will also note, the claim does not include the "at least one handle" recitation of original claim 22.

CONCLUSION

In view of the foregoing response including the amendments and remarks, this application is submitted to be in complete condition for allowance and early notice to this effect is earnestly solicited. If there is any issue that remains which may be resolved by telephone conference, Examiner is invited to contact the undersigned in order to resolve the same and expedite the allowance of this application.

Applicant does not believe that this response requires that any fees be submitted other than that for one independent claim in excess of three, being submitted herewith. However, if any fees are deemed necessary, authorization is given to charge these fees to Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

/Louis H. Sitler/

Louis H. Sitler, Reg. No. 81,818

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Cincinnati, OH 45202
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

U.S. PATENTS Remove						
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3140878	A	1964-07-14	DAVIS THOMAS E	
	2	4886725	A	1989-12-12	Tanaka et al.	
	3	6142879	A	2000-11-07	Phillips, Forrest B.	
	4	6908351	B2	2005-06-21	Burke, Scott	
	5	7250009	B2	2007-07-31	Weber, Lawrence J.	
	6	7431982	B2	2008-10-07	Sasao et al.	
	7	9486711	B2	2016-11-08	Brassard et al.	
	8	9861220	B2	2018-01-09	Burkhalter, John Charles	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
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	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

	9	10119094	B2	2018-11-06	Barth et al.	
	10	10549502	B2	2020-02-04	Berrang, Peter G.	
	11	11352101	B2	2022-06-07	Osborn et al.	
	12	D973821	S	2022-12-27	Schmit, Gary Robert	
	13	D1003382	S	2023-10-31	Schmit	

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U.S.PATENT APPLICATION PUBLICATIONS

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20070082790	A1	2007-04-12	Siebert, Thomas	
	2	20090105000	A1	2009-04-23	Scarborough, Robert J.	
	3	20140295140	A1	2014-10-02	King et al.	
	4	20140357387	A1	2014-12-04	Murphy, Douglas	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

	5	20170072253	A1	2017-03-16	TSAI, Victor	
	6	20180054227	A1	2018-02-22	Wolf, David	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	202007006829	DE	U1	2007-08-30	Wassertechnik, Wertheim Gmbh & Co. Kg		☒
	2	101882747	KR	B1	2018-08-24	Green Korea Co Ltd		☒

If you wish to add additional Foreign Patent Document citation information please click the Add button.

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button.

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
	First Named Inventor	Gary Schmit
	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sitler/	Date (YYYY-MM-DD)	2024-01-23
Name/Print	Louis H. Sitler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Certificate of Electronic Transmission

I hereby certify that this correspondence is being electronically transmitted to the U.S. Patent and Trademark Office via EFS-WEB on January 23, 2024.

/Louis H. Sitler/ January 23, 2024
Louis H. Sitler Date
Reg. No. 81,818

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Gary Schmit
Applicant: Slick Slide LLC
Serial No.: 18/349,347
Filed: July 10, 2023
Group Art Unit: 1771
Examiner: Campanell, Francis C.
Confirmation No.: 8412
Title: LOW-FRICTION RECREATIONAL SLIDE SYSTEM
Attorney Docket: SSCO-03US

Cincinnati, Ohio 45202

January 23, 2024

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

In accordance with the duty of candor and good faith imposed by 37 C.F.R. §1.56 and means of complying therewith according to 37 C.F.R. §§1.97 and 1.98, the references listed on the attached form PTO/SB/08a (01-22) are called to the attention of the U.S. Patent and Trademark Office in connection with the above-identified patent application.

No admission is made that the cited art represents the prior art or that the cited art is the most material art. Applicant makes no assertions with regard to the

materiality of the cited references. The Examiner is urged to consider the cited references listed on the attached Form PTO/SB/08a, and to make an independent decision with respect to their materiality.

It is submitted that the cited references do not disclose or render obvious the subject matter claimed in the present application.

Please see the electronic fee calculation sheet for the charge in the amount of \$104 for the Information Disclosure Statement fee as required by 37 C.F.R. § 1.17(p). If any other fees are necessary, the Commissioner is hereby authorized to charge any underpayment or fees associated with this communication or credit any overpayment to Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

/Louis H. Sitler/
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NOTICE OF ALLOWANCE AND FEE(S) DUE

26875 7590 02/14/2024
WOOD, HERRON & EVANS, LLP
600 VINE STREET
SUITE 2800
CINCINNATI, OH 45202

EXAMINER

CAMPANELLO, FRANCIS C

ART UNIT

PAPER NUMBER

1771

DATE MAILED: 02/14/2024

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412

TITLE OF INVENTION: LOW-FRICTION RECREATIONAL SLIDE SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	05/14/2024

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the ENTITY STATUS shown above. If the ENTITY STATUS is shown as SMALL or MICRO, verify whether entitlement to that entity status still applies.

If the ENTITY STATUS is the same as shown above, pay the TOTAL FEE(S) DUE shown above.

If the ENTITY STATUS is changed from that shown above, on PART B - FEE(S) TRANSMITTAL, complete section number 5 titled "Change in Entity Status (from status indicated above)".

For purposes of this notice, small entity fees are 40% the amount of undiscounted fees, and micro entity fees are 20% the amount of undiscounted fees.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Maintenance fees are due in utility patents issuing on applications filed on or after Dec. 12, 1980. It is patentee's responsibility to ensure timely payment of maintenance fees when due. More information is available at www.uspto.gov/PatentMaintenanceFees.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

By fax, send to: (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

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26875 7590 02/14/2024
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SUITE 2800
CINCINNATI, OH 45202

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I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

(Typed or printed name)
(Signature)
(Date)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412

TITLE OF INVENTION: LOW-FRICTION RECREATIONAL SLIDE SYSTEM

APPLN. TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480	\$0.00	\$0.00	\$480	05/14/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
CAMPANELLE, FRANCIS C	1771	472-088000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).

☐ Change of correspondence address (or Change of Correspondence Address form PTO/AIA/122 or PTO/SB/122) attached.

☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AIA/47 or PTO/SB/47; Rev 03-02 or more recent) attached. **Use of a Customer Number is required.**

2. For printing on the patent front page, list

(1) The names of up to 3 registered patent attorneys or agents OR, alternatively,

(2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.

1 _____

2 _____

3 _____

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☐ Corporation or other private group entity ☐ Government

4a. Fees submitted: ☐ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment: (Please first reapply any previously paid fee shown above)

☐ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. _____

5. Change in Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29

☐ Applicant asserting small entity status. See 37 CFR 1.27

☐ Applicant changing to regular undiscounted fee status.

NOTE: Absent a valid certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

NOTE: If the application was previously under micro entity status, checking this box will be taken to be a notification of loss of entitlement to micro entity status.

NOTE: Checking this box will be taken to be a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature _____

Date _____

Typed or printed name _____

Registration No. _____



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412
26875 7590 02/14/2024 WOOD, HERRON & EVANS, LLP 600 VINE STREET SUITE 2800 CINCINNATI, OH 45202			EXAMINER CAMPANELLO, FRANCIS C	
			ART UNIT 1771	PAPER NUMBER
DATE MAILED: 02/14/2024				

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (Applications filed on or after May 29, 2000)

The Office has discontinued providing a Patent Term Adjustment (PTA) calculation with the Notice of Allowance.

Section 1(h)(2) of the AIA Technical Corrections Act amended 35 U.S.C. 154(b)(3)(B)(i) to eliminate the requirement that the Office provide a patent term adjustment determination with the notice of allowance. See Revisions to Patent Term Adjustment, 78 Fed. Reg. 19416, 19417 (Apr. 1, 2013). Therefore, the Office is no longer providing an initial patent term adjustment determination with the notice of allowance. The Office will continue to provide a patent term adjustment determination with the Issue Notification Letter that is mailed to applicant approximately three weeks prior to the issue date of the patent, and will include the patent term adjustment on the patent. Any request for reconsideration of the patent term adjustment determination (or reinstatement of patent term adjustment) should follow the process outlined in 37 CFR 1.705.

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

OMB Clearance and PRA Burden Statement for PTOL-85 Part B

The Paperwork Reduction Act (PRA) of 1995 requires Federal agencies to obtain Office of Management and Budget approval before requesting most types of information from the public. When OMB approves an agency request to collect information from the public, OMB (i) provides a valid OMB Control Number and expiration date for the agency to display on the instrument that will be used to collect the information and (ii) requires the agency to inform the public about the OMB Control Number's legal significance in accordance with 5 CFR 1320.5(b).

The information collected by PTOL-85 Part B is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.** Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. The United States Patent and Trademark Office (USPTO) collects the information in this record under authority of 35 U.S.C. 2. The USPTO's system of records is used to manage all applicant and owner information including name, citizenship, residence, post office address, and other information with respect to inventors and their legal representatives pertaining to the applicant's/owner's activities in connection with the invention for which a patent is sought or has been granted. The applicable Privacy Act System of Records Notice for the information collected in this form is COMMERCE/PAT-TM-7 Patent Application Files, available in the Federal Register at 78 FR 19243 (March 29, 2013).

<https://www.govinfo.gov/content/pkg/FR-2013-03-29/pdf/2013-07341.pdf>

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- 2) a federal, state, local, or international agency, in response to its request;
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- 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
- 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
- 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
- 9) the Office of Personnel Management (OPM) for personnel research purposes; and
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

Notice of Allowability	Application No. 18/349,347	Applicant(s) Schmit, Gary	
	Examiner FRANK C CAMPANELL	Art Unit 1771	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the communication on 01/23/2024.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-24 and 26-29. As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☐ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>01/23/2024</u> .	6. ☒ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771	/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771
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Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.

Allowable Subject Matter

2. Claims 1-24 and 26-29 are allowed. Key to allowance of these claims is the new claim limitation of 01/23/2024 and the remarks of 01/23/2024.

3. The closest prior art is Fallgatter et al, and Fallgatter and Schumann et al, see office action of 10/08/2023. This teaches the slide system as found in claim 1. However, this does not teach the coefficient of friction being between 0.03 and 0.2. Thus, the two matching surfaces do not have that coefficient of friction.

4. The art teaches most of ride vehicle as taught in claim 22. However, it does not teach the plurality of interstitial opening that are 35% to 50% of the surface area. This was indicated in the previous office action.

5. Regarding claims 1 and dependent claims, a recreational slide system, comprising:

6. a slide including a slide body with a non-wet lubricated slide surface that extends between a top entrance of the slide and a bottom exit of the slide; and

7. a ride vehicle configured to support a rider down the slide, the ride vehicle including a top surface configured to contact the rider and a mesh layer that forms a bottom surface configured to contact the slide surface;

8. wherein a coefficient of friction between the mesh layer of the ride vehicle and the non-wet lubricated slide surface is within a range of between about 0.03 to about 0.2, is not taught or fairly suggested by the prior art.

9. Regarding claims 22 and dependent claims a ride vehicle configured to support a rider down a non-wet lubricated recreational slide, the ride vehicle comprising:

10. an elongate body that extends between a first end and an opposite second end, the body including a central core positioned between a top surface of the ride vehicle and a woven mesh layer that forms a bottom surface of the ride vehicle that is configured to contact the non-wet lubricated recreational slide;

11. wherein the mesh layer includes a plurality of interstitial openings that define an open area of the mesh layer, wherein the open area of the mesh layer is within a range of between about 35% to about 50%, is not taught or fairly suggested in the prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANK C CAMPANELLO whose telephone number is (571)270-3165. The examiner can normally be reached Monday-Friday 9:00-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Prem Singh can be reached on 571-272-6381. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center,

Application/Control Number: 18/349,347
Art Unit: 1771

Page 4

visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For additional questions, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FRANCIS C CAMPANELLO/
Examiner, Art Unit 1771

/PREM C SINGH/
Supervisory Patent Examiner, Art Unit 1771

<i>Search Notes</i> 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

CPC - Searched*		
Symbol	Date	Examiner
A63G21/02 OR C10M107/38 OR C10M107/50 OR C10M125/04 OR C10M169/04 OR C10M2201/05 OR C10M2213/0623 OR C10M2229 /0475 OR C10N2050/023).cpc.	11/02/2023	FCC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
472	88	11/02/2023	FCC

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor and assignee search done. See search history for text modification of cpc and class searches.	11/02/2023	FCC
search updated	02/07/2024	FCC

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	interference search done	02/07/2024	FCC

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771	/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771
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<i>Index of Claims</i> 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

✓	Rejected	-	Cancelled	N	Non-Elected	A	Appeal
=	Allowed	÷	Restricted	I	Interference	O	Objected

CLAIMS									
☐ Claims renumbered in the same order as presented by applicant ☐ CPA ☐ T.D. ☐ R.1.47									
CLAIM		DATE							
Final	Original	11/02/2023	02/07/2024						
	1	✓	=						
	2	✓	=						
	3	✓	=						
	4	✓	=						
	5	✓	=						
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	24	✓	=						
	25	○	-						
	26	○	=						
	27	✓	=						
	28	✓	=						
	29	✓	=						

Issue Classification 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

CPC						
Symbol					Type	Version
A63G	/	21	/	02	F	2013-01-01
C10M	/	107	/	50	I	2013-01-01
C10M	/	107	/	38	I	2013-01-01
C10M	/	125	/	04	I	2013-01-01
C10M	/	169	/	04	I	2013-01-01
C10M	/	2201	/	05	A	2013-01-01
C10N	/	2050	/	023	A	2020-05-01
C10M	/	2229	/	0475	A	2013-01-01
C10M	/	2213	/	0623	A	2013-01-01

CPC Combination Sets					
Symbol			Type	Set	Ranking
/	/	/			

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771 (Assistant Examiner)	07 February 2024 (Date)	Total Claims Allowed: 28	
/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771 (Primary Examiner)	08 February 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure Fig. 1

Issue Classification 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

INTERNATIONAL CLASSIFICATION			
CLAIMED			
A63G		21	02

NON-CLAIMED			

US ORIGINAL CLASSIFICATION	
CLASS	SUBCLASS
472	88

CROSS REFERENCES(S)						
CLASS	SUBCLASS (ONE SUBCLASS PER BLOCK)					

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771 (Assistant Examiner)	07 February 2024 (Date)	Total Claims Allowed: 28	
/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771 (Primary Examiner)	08 February 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure Fig. 1

Issue Classification 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

☒ Claims renumbered in the same order as presented by applicant
 ☐ CPA
 ☐ T.D.
 ☐ R.1.47

CLAIMS															
Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original	Final	Original
1	1	10	10	19	19	27	28								
2	2	11	11	20	20	28	29								
3	3	12	12	21	21										
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5	5	14	14	23	23										
6	6	15	15	24	24										
7	7	16	16	-	25										
8	8	17	17	25	26										
9	9	18	18	26	27										

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771 (Assistant Examiner)	07 February 2024 (Date)	Total Claims Allowed: 28	
/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771 (Primary Examiner)	08 February 2024 (Date)	O.G. Print Claim(s) 1	O.G. Print Figure Fig. 1

Bibliographic Data

Application No: 18/349,347

Foreign Priority claimed: ☐ Yes ☒ No

35 USC 119 (a-d) conditions met: ☐ Yes ☒ No ☐ Met After Allowance

Verified and Acknowledged: /FRANCIS C CAMPANELL/

Examiner's Signature

Initials

Title:

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

FILING or 371(c) DATE	CLASS	GROUP ART UNIT	ATTORNEY DOCKET NO.
07/10/2023	472	1771	SSCO-03US
RULE			

APPLICANTS

Slick Slide LLC, Phoenix, AZ, UNITED STATES

INVENTORS

Mr. Gary Schmit, Phoenix, AZ, UNITED STATES

CONTINUING DATA

This application has PRO of 63381818 11/01/2022

FOREIGN APPLICATIONS

IF REQUIRED, FOREIGN LICENSE GRANTED**

07/25/2023

** SMALL ENTITY **

STATE OR COUNTRY

UNITED STATES

ADDRESS

WOOD, HERRON & EVANS, LLP

600 VINE STREET

SUITE 2800

CINCINNATI, OH 45202

UNITED STATES

FILING FEE RECEIVED

\$2,760

PE2E SEARCH - Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
L1	175	472/88.ccls.	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/10/26 05:28 PM
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L15	3	("20070225178" OR "20150314203" OR "5246401").pn.	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/02 06:22 PM
L16	0	"2023069789"	(US-PGPUB; USPAT)	OR	ON	ON	2023/11/02 06:24 PM
L17	6	"2023069789"	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 06:25 PM
L18	37	(Artificial Intelligence) More like doc: WO-2023069789-A2 Text: (US-2023129814-A1 OR WO-2023069789- A3 OR US-6142879-A OR WO-0046487-A1 OR WO-2007012852- A1 OR EP-1910624-A1	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO,	OR	ON	ON	2023/11/02 06:25 PM

L19	25	OR JP-2016183436-A OR CN-106638018-A OR US-9901836-B1 OR WO-2016112223-A2 OR US-2016192783-A1 OR AU-2007100303-A4 OR KR-20120004115-U OR KR-200464061-Y1 OR US-2006049672-A1 OR US-6830170-B2 OR US-11247814-B2 OR CN-210706649-U OR US-2019135490-A1 OR US-7225483-B1).did. "5246401"	NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 06:26 PM
L20	27	("3140878" "3625533" "3715120" "4173351" "4199142" "4451032" "4813663" "4850913" "4887811").pn. OR ("5246401").urpn. AND (PGPB USPT USOC).dbnm.	(US-PGPUB; USPAT; USOCR)	OR	ON	ON	2023/11/02 06:26 PM
L21	224	((A63G21/02 OR C10M107/38 OR C10M107/50 OR C10M125/04 OR C10M169/04 OR C10M2201/05 OR C10M2213/0623 OR C10M2229/0475 OR C10N2050/023).cpc.) AND slide.ab. AND vehicle	(US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 06:31 PM
L22	2932	(slide OR sled).ab. AND (weft SAME thread)	(US-PGPUB; USPAT; USOCR; FIT (AU, AP,	OR	ON	ON	2023/11/02 06:33 PM

L23	44	(slide OR sled).ab. AND (weft SAME thread) AND handle AND mesh	AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB) (US-PGPUB; USPAT; USOCR; FIT (AU, AP, AT, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, OA, RU, SU, WO, MC, MD, MY, NL, NO, NZ, PH, PL, PT, RO, RS, SE, SG, SI, SK, TH, TN, TR, TW, UA, VN); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 06:35 PM
L24	148	(slide OR sled) AND (weft SAME thread) AND handle AND mesh	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:36 PM
L26	11	((A63G21/02 OR C10M107/38 OR C10M107/50 OR C10M125/04 OR C10M169/04 OR C10M2201/05 OR C10M2213/0623 OR C10M2229/0475 OR C10N2050/023).cpc.) AND (slide OR sled) AND thread AND handle AND mesh	(US-PGPUB; USPAT; USOCR; FIT (AP, AT, AU, BE, BG, BR, BY, CA, CH, CN, CS, CU, CZ, DD, DE, DK, EA, EE, EP, ES, FI, FR, GB, HR, HU, ID, IE, IL, IS, IT, JP, KR, LT, LU, LV, MA, MC, MD, MY, NL, NO, NZ, OA, PH, PL, PT, RO, RS, RU, SE, SG, SI, SK, SU, TH, TN, TR, TW, UA, VN, WO); FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2023/11/02 06:38 PM
L27	20	(sliding).ab. AND (weft SAME thread) AND mesh	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:41 PM
L28	800	(sliding).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:48 PM

L29	0	"508".clas. AND (sliding).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND (recreation OR recreational)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:52 PM
L30	0	"508".clas. AND (sliding).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND (recreation OR recreational)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:53 PM
L31	1	(sliding).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND (recreation OR recreational)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 06:53 PM
L32	273	(sliding near3 surface).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 07:00 PM
L33	0	(sliding near3 surface).ab. AND (copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND hardner	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 07:01 PM
L34	37	(copper) AND (ptfe OR polytetrafluoroethylene) AND (resin OR epoxy) AND hardner	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 07:02 PM
L35	37	"508".clas. AND (ptfe OR polytetrafluoroethylene) AND (resin SAME silicon SAME epoxy)	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 10:34 PM
L36	0	"63381818"	(US-PGPUB; USPAT; EPO)	OR	ON	ON	2023/11/02 10:41 PM
L37	19	("10119094" OR "10549502" OR "11352101" OR "20070082790" OR "20090105000" OR "20140295140" OR "20140357387" OR "20170072253" OR "20180054227" OR "3140878" OR "4886725" OR "6142879" OR "6908351" OR	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/07 03:08 PM

L38	174	"7250009" OR "7431982" OR "9486711" OR "9861220" OR "D1003382" OR "D973821").pn. 472/88.ccls.	(US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB)	OR	ON	ON	2024/02/07 05:31 PM
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PE2E SEARCH - Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	British Equivalents	Time Stamp
N1	3	(recreational AND slide AND mesh AND surface).clm.	(US-PGPUB; USPAT)	OR	ON	ON	2024/02/07 03:09 PM

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

U.S. PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	3140878	A	1964-07-14	DAVIS THOMAS E	
	2	4886725	A	1989-12-12	Tanaka et al.	
	3	6142879	A	2000-11-07	Phillips, Forrest B.	
	4	6908351	B2	2005-06-21	Burke, Scott	
	5	7250009	B2	2007-07-31	Weber, Lawrence J.	
	6	7431982	B2	2008-10-07	Sasao et al.	
	7	9486711	B2	2016-11-08	Brassard et al.	
	8	9861220	B2	2018-01-09	Burkhalter, John Charles	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

	9	10119094	B2	2018-11-06	Barth et al.	
	10	10549502	B2	2020-02-04	Berrang, Peter G.	
	11	11352101	B2	2022-06-07	Osborn et al.	
	12	D973821	S	2022-12-27	Schmit, Gary Robert	
	13	D1003382	S	2023-10-31	Schmit	

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Add

U.S.PATENT APPLICATION PUBLICATIONS

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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear
	1	20070082790	A1	2007-04-12	Siebert, Thomas	
	2	20090105000	A1	2009-04-23	Scarborough, Robert J.	
	3	20140295140	A1	2014-10-02	King et al.	
	4	20140357387	A1	2014-12-04	Murphy, Douglas	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

	5	20170072253	A1	2017-03-16	TSAI, Victor	
	6	20180054227	A1	2018-02-22	Wolf, David	

If you wish to add additional U.S. Published Application citation information please click the Add button.

FOREIGN PATENT DOCUMENTS

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	202007006829	DE	U1	2007-08-30	Wassertechnik, Wertheim GmbH & Co. Kg		☒
	2	101882747	KR	B1	2018-08-24	Green Korea Co Ltd		☒

If you wish to add additional Foreign Patent Document citation information please click the Add button.

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1		☐

If you wish to add additional non-patent literature document citation information please click the Add button.

EXAMINER SIGNATURE

Examiner Signature	/FRANCIS C CAMPANELL/	Date Considered	02/07/2024
--------------------	-----------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
	First Named Inventor	Gary Schmit
	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
	First Named Inventor	Gary Schmit
	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☒ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sitler/	Date (YYYY-MM-DD)	2024-01-23
Name/Print	Louis H. Sitler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

PART B-FEE(S) TRANSMITTAL

Complete and send this form, together with the applicable fee(s), by mail or fax, or via the USPTO patent electronic filing system.

By mail, send to: Mail Stop ISSUE FEE
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

By fax, send to: (571) 273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. **Because electronic patent issuance may occur shortly after issue fee payment, any desired continuing application should preferably be filed prior to payment of this issue fee in order not to jeopardize copendency.**

CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)

WOOD HERRON & EVANS LLP
600 Vine Street, Suite 2800
Cincinnati, Ohio 45202-2409

Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO via the USPTO patent electronic filing system or by facsimile to (571) 273-2885, on the date below.

Louis H. Sitler	(Typed or printed name)
/Louis H. Sitler/	(Signature)
February 15, 2024	(Date)

APPLICATION NO	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO	CONFIRMATION NO
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412

TITLE OF INVENTION: Low-Friction Recreational Slide System

APPLN: TYPE	ENTITY STATUS	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	SMALL	\$480.00	\$0	\$0	\$480.00	05/14/2024

EXAMINER	ART UNIT	CLASS-SUBCLASS
Campanell, Francis C	1771	472-088000

1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363) ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/AlA/47 or PTO/SB/47; Rev 03-09 or more recent) attached. Use of a Customer Number is required.	2. For printing on the patent front page, list (1) The names of up to 3 registered patent attorneys or agents OR, alternatively, (2) The name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.	1 Wood Herron & Evans LLP 2 3
--	--	--

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document must have been previously recorded, or filed for recordation, as set forth in 37 CFR 3.11 and 37 CFR 3.81(a). Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE or COUNTRY)

Slick Slide LLC

Phoenix, Arizona

Please check the appropriate assignee category or categories (will not be printed on the patent): ☐ Individual ☒ Corporation or other private group entity ☐ Government

4a. Fees Submitted: ☒ Issue Fee ☐ Publication Fee (if required)

4b. Method of Payment (Please first reapply any previously paid fee shown above):

☒ Electronic Payment via the USPTO patent electronic filing system ☐ Enclosed check ☐ Non-electronic payment by credit card (Attach form PTO-2038)

☒ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment to Deposit Account No. 23-3000

5. Change of Entity Status (from status indicated above)

☐ Applicant certifying micro entity status. See 37 CFR 1.29.

NOTE: Absent a valid Certification of Micro Entity Status (see forms PTO/SB/15A and 15B), issue fee payment in the micro entity amount will not be accepted at the risk of application abandonment.

☐ Applicant asserting small entity status. See 37 CFR 1.27.

NOTE: If the application was previously under micro entity status, checking this box will be taken as a notification of loss of entitlement to micro entity status.

☐ Applicant changing to regular undiscounted fee status.

NOTE: Checking this box will be taken as a notification of loss of entitlement to small or micro entity status, as applicable.

NOTE: This form must be signed in accordance with 37 CFR 1.31 and 1.33. See 37 CFR 1.4 for signature requirements and certifications.

Authorized Signature

/Louis H. Sitler/

Date February 15, 2024

Typed or printed name

Louis H. Sitler

Registration No.

81,818



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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ELECTRONIC PAYMENT RECEIPT

APPLICATION # 18/349,347	RECEIPT DATE / TIME 02/15/2024 07:31:38 AM Z ET	ATTORNEY DOCKET # SSCO-03US
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Title of Invention

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

Application Information

APPLICATION TYPE	Utility - Nonprovisional Application under 35 USC 111(a)	PATENT #	-
CONFIRMATION #	8412	FILED BY	Rhonda Etienne
PATENT CENTER #	64329305	AUTHORIZED BY	Louis Sitrer
CUSTOMER #	26875	FILING DATE	07/10/2023
CORRESPONDENCE ADDRESS	-	FIRST NAMED INVENTOR	Mr. Gary Schmit

Payment Information

PAYMENT METHOD CARD / 2217	PAYMENT TRANSACTION ID E20242E833076709	PAYMENT AUTHORIZED BY Rhonda Etienne
--------------------------------------	---	--

FEE CODE	DESCRIPTION	ITEM PRICE(\$)	QUANTITY	ITEM TOTAL(\$)
2501	UTILITY ISSUE FEE	480.00	1	480.00
TOTAL AMOUNT:				\$480.00

This Acknowledgement Receipt evidences receipt on the noted date by the USPTO of the indicated documents, characterized by the applicant, and including page counts, where applicable. It serves as evidence of receipt similar to a Post Card, as described in MPEP 503.

New Applications Under 35 U.S.C. 111

If a new application is being filed and the application includes the necessary components for filing date (see 37 CFR 1.53(b)-(d) and MPEP 506), a Filing Receipt (37 CFR 1.54) will be issued in due course and the date shown on this Acknowledgement Receipt will establish the filing date of the application

National Stage of an International Application under 35 U.S.C. 371

If a timely submission to enter the national stage of an international application is compliant with the conditions of 35 U.S.C. 371 and other applicable requirements a Form PCT/DO/EO/903 indicating acceptance of the application as a national stage submission under 35 U.S.C. 371 will be issued in addition to the Filing Receipt, in due course.

New International Application Filed with the USPTO as a Receiving Office

If a new international application is being filed and the international application includes the necessary components for an international filing date (see PCT Article 11 and MPEP 1810), a Notification of the International Application Number and of the International Filing Date (Form PCT/RO/105) will be issued in due course, subject to prescriptions concerning national security, and the date shown on this Acknowledgement Receipt will establish the international filing date of the application.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	03/19/2024	11931661	SSCO-03US	8412

26875 7590 02/28/2024
WOOD, HERRON & EVANS, LLP
600 VINE STREET
SUITE 2800
CINCINNATI, OH 45202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at <https://certifiedcopycenter.uspto.gov/index.html>. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (<https://patentcenter.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional inventors):

Mr.Gary Schmit, Phoenix, AZ;

APPLICANT(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional applicants):

Slick Slide LLC, Phoenix, AZ;

The United States represents the largest, most dynamic marketplace in the world and is an unparalleled location for business investment, innovation, and commercialization of new technologies. The USA offers tremendous resources and advantages for those who invest and manufacture goods here. Through SelectUSA, our nation works to encourage and facilitate business investment. To learn more about why the USA is the best country in the world to develop technology, manufacture products, and grow your business, visit SelectUSA.gov.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
	First Named Inventor	Gary Schmit
	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
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Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
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Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.						T ⁵

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

1	UK Intellectual Property Office, Patents Act 1977: Observations under Section 21, Letter to Applicant's counsel from UK IPO, regarding observations received from a third party in Application No. GB23143715.5, dated February 23, 2024 (1 page).	☐
2	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Observation submitted: cover email to UK Intellectual Property Office, regarding Urgent Observations Under Section 21 UKPA, submitted by Third Party on February 21, 2024 (6 pages).	☐
3	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Observation submitted: email regarding 6 person wipeout, email dated March 3, 2019 (1 page).	☐
4	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, 6 Man Meltown Cage Attachment, submitted by Third Party on February 21, 2024 (6 pages).	☐
5	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Slick Slide Co Intro Attachment, submitted by Third Party on February 21, 2024 (12 pages).	☐
6	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Observation submitted: Second email to UK Intellectual Property Office regarding Urgent Observations Under Section 21 UKPA, submitted by Third Party on February 22, 2024 (7 pages).	☐
7	UK Intellectual Property Office, Patents Act 1977: Observations under Section 21 received from a third party regarding Application No. GB2314317.5, Reply email from IPO, acknowledging receipt of observations, email dated February 22, 2024 (1 page).	☐
8	UK Intellectual Property Office, Patents Act 1977, Examination Report under Section 18(3), Application No. GB2314317.5, dated March 6, 2024 (2 pages).	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
	First Named Inventor	Gary Schmit
	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sittler/	Date (YYYY-MM-DD)	2024-03-12
Name/Print	Louis H. Sittler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Certificate of Electronic Transmission

I hereby certify that this correspondence is being electronically transmitted to the U.S. Patent and Trademark Office via EFS-WEB on March 12, 2024.

/Louis H. Sitler/ March 12, 2024
Louis H. Sitler Date
Reg. No. 81,818

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Gary Schmit
Applicant: 18/349,347
Serial No.: July 10, 2023
Filed: 8412
Group Art Unit: 1771
Examiner: Campanell, Francis C.
Confirmation No.: **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**
Title: SSCO-03US
Attorney Docket: Gary Schmit

Cincinnati, Ohio 45202

March 12, 2024

Mail Stop AF
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

QUICK PATH INFORMATION DISCLOSURE STATEMENT

Applicant has filed herewith a Certification and Request for Consideration under the Quick Path Information Disclosure Statement (QPIDS) Program of the attached Information Disclosure Statement filed in connection with the above-identified patent application after payment of the Issue Fee.

In accordance with the duty of candor and good faith imposed by 37 C.F.R. §1.56 and means of complying therewith according to 37 C.F.R. §§1.97 and 1.98, the items of information listed on the attached form PTO/SB/08a (01-22) are called to the attention of the U.S. Patent and Trademark Office in connection with the above-identified patent application. Each of items 1-7 of information were cited in communications received from the United Kingdom Intellectual Property Office in pending UK Patent Application No: GB2314317.5, owned by the Applicant of the present patent application, regarding a third party observation in the above-referenced UK Patent Application. Item 8 of information, an Examination Report dated March 6, 2024, was cited in a separate communication received from the United Kingdom Intellectual Property Office in the above-referenced UK Patent Application.

No admission is made that the cited items of information represent the prior art or that the cited items of information is the most material art. Applicant makes no assertions with regard to the materiality of the cited items of information. The Examiner is urged to consider the cited items of information listed on the attached Form PTO/SB/08a, and to make an independent decision with respect to their materiality.

Please see the electronic fee calculation sheet for the charge in the amount of \$104 for the Information Disclosure Statement as required by 37 C.F.R. § 1.17(p), \$544 for the Request for Continued Examination as required by 37 C.F.R. § 1.17(e)(1), and \$56 for the fee for the Petition to Withdraw from Issue as required by 37 C.F.R. § 1.17(h), which are being submitted herewith. If, however, any additional fees are necessary as a result of this submission, the Commissioner is hereby authorized to charge any under-payment or credit any over-payment to Deposit Account 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

/Louis H. Sitler/

Louis H. Sitler
Reg. No. 81,818

600 Vine Street, Suite 2800
Cincinnati, OH 45202
(513) 241-2324 – Voice
(513) 241-6234 – Facsimile



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
www.uspto.gov

GRANT LETTER

APPLICATION #	DECISION DATE	DECISION ON PETITION #	ATTORNEY DOCKET NUMBER
18/349,347	03/12/2024		SSCO-03US

Title of Invention

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

In re Application of Gary Schmit

This is an electronic decision on the petition under , filed March 12, 2024 to withdraw the above-identified application from issue after payment of the issue fee.

The request is **GRANTED**.

Petitioner is advised that the issue fee paid in this application cannot be refunded. If, however, this application is again allowed, petitioner may request that it be applied towards the issue fee required by the new Notice of Allowance.

The application is being referred to Technology Center AU for

Telephone inquired concerning this decision should be directed to the Patent Electronic Business Center (EBC) at 866-217-9197.

Office of Petitions



UNITED STATES
PATENT AND TRADEMARK OFFICE

P.O. Box 1450
Alexandria, VA 22313 - 1450
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PETITION TO WITHDRAW AN APPLICATION FROM ISSUE AFTER PAYMENT OF THE ISSUE FEE UNDER 37 CFR 1.313(c)(2) with Assigned Patent Number)

APPLICATION #
18349347

ATTORNEY DOCKET #
SSCO-03US

FILING DATE
07/10/2023

Title of Invention

LOW-FRICTION RECREATIONAL SLIDE SYSTEM

Application Information

CONFIRMATION # 8412

FILING DATE 07/10/2023

ART UNIT 1771

FIRST NAMED INVENTOR Gary Schmit

EXAMINER FRANCIS CAMPANELL

An application may be withdrawn from issue for further action upon petition by the applicant. To request that the Office withdraw an application from issue, applicant must file a petition under this section including the fee set forth in § 1.17(h) and a showing of good and sufficient reasons why withdrawal of the application from issue is necessary.

APPLICANT HEREBY PETITIONS TO WITHDRAW THIS APPLICATION FROM ISSUE UNDER 37 CFR 1.313(c).

A grantable petition requires the following items:

- (1) Petition fee; and
- (2) One of the following reasons: A grantable petition requires the following items: (a) Unpatentability of one or more claims, which must be accompanied by an unequivocal statement that one or more claims are unpatentable, an amendment to such claim or claims, and an explanation as to how the amendment causes such claim or claims to be patentable;
- (b) Consideration of a request for continued examination in compliance with § 1.114 (for a utility or plant application only); or
- (c) Express abandonment of the application. Such express abandonment may be in favor of a continuing application, but not a CPA under 37 CFR 1.53(d).

Reason for withdrawal

Consideration of a request for continued examination (Quick Path Information Disclosure Statement) - RCE request,

submission, and fee are attached

Applicant claims the following entity status

Small

Signature

I certify, in accordance with 37 CFR 1.4(d)(4) that I am:

An attorney or agent registered to practice before the Patent and Trademark Office who has been given power of attorney in this application

Signature

Name

Registration #

/Louis H. Sitler/

Louis Sitler

81818

CERTIFICATION AND REQUEST FOR CONSIDERATION OF AN INFORMATION DISCLOSURE STATEMENT FILED AFTER PAYMENT OF THE ISSUE FEE UNDER THE QPIDS PROGRAM	
Non-Provisional Application Number: 18/349,347	Filing Date: July 10, 2023
First Named Inventor: Gary Schmit	Title of Invention: Low-Friction Recreational Slide System
THE UNDERSIGNED HEREBY CERTIFIES AND REQUESTS THE FOLLOWING FOR THE ABOVE-IDENTIFIED APPLICATION. 1. Consideration is requested of the information disclosure statement (IDS) submitted herewith, which is being filed after payment of the issue fee. 2. Check the box next to the appropriate selection: ☒ Each item of information contained in the IDS was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(1). OR ☐ No item of information contained in the IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the IDS was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the IDS. See 37 CFR 1.97(e)(2). OR ☐ See attached certification statement in compliance with 37 CFR 1.97(e). 3. Please charge the IDS fee set forth in 37 CFR 1.17(p) to Deposit Account No. <u>233000</u>. 4. A Petition to Withdraw from Issue After Payment of the Issue Fee (37 CFR 1.313(c)(2)), including the petition fee set forth in 37 CFR 1.17(h), is submitted herewith as a Web-based ePetition. WARNING: Do <u>not</u> submit the petition as a follow-on paper via the USPTO patent electronic filing system. Submit the petition as a Web-based ePetition by signing on to the USPTO patent electronic filing system as a registered user, selecting "Petitions" in the top menu or by using the display cards, and then selecting the appropriate Petition to Withdraw from Issue after Payment of the Issue Fee (for automatic processing and immediate grant, if all petitions requirements are met). Failure to use a Web-based ePetition will result in automatic entry of the RCE. 5. A request for continued examination (RCE) under 37 CFR 1.114 and the RCE fee under 37 CFR 1.17(e) are submitted herewith. 6. The RCE will be treated as a "conditional" RCE. In the event the examiner determines that any item of information contained in the IDS necessitates the reopening of prosecution in the application, the undersigned understands that (i) the RCE will be processed and treated as an RCE under 37 CFR 1.114 and therefore (ii) the IDS fee under 37 CFR 1.17(p) will be returned in accordance with 37 CFR 1.97(b)(4). In the event that no item of information in the IDS necessitates reopening prosecution, the undersigned understands that the RCE will not be processed and the RCE fee under 37 CFR 1.17(e) will be returned. 7. This certification and request is being filed as a Web-based ePetition and is not accompanied by an amendment to the application. Inclusion of an amendment will result in automatic entry of the RCE.	
Signature /Louis H. Sitler/	Date March 12, 2024
Name (Print/Typed) Louis H. Sitler	Practitioner Registration Number (If applicable) 81,818
Note: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required in accordance with 37 CFR 1.33 and 11.18. Please see 37 CFR 1.4(d) for the form of the signature. If necessary, submit multiple forms for more than one signature, see below.*	
☒ *Total of <u>1</u> forms are submitted.	

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

Routine uses of the information in this record may include disclosure to:

- 1) law enforcement, in the event that the system of records indicates a violation or potential violation of law;
- 2) a federal, state, local, or international agency, in response to its request;
- 3) a contractor of the USPTO having need for the information in order to perform a contract;
- 4) the Department of Justice for determination of whether the Freedom of Information Act (FOIA) requires disclosure of the record;
- 5) a Member of Congress submitting a request involving an individual to whom the record pertains, when the individual has requested the Member's assistance with respect to the subject matter of the record;
- 6) a court, magistrate, or administrative tribunal, in the course of presenting evidence, including disclosures to opposing counsel in the course of settlement negotiations;
- 7) the Administrator, General Services Administration (GSA), or their designee, during an inspection of records conducted by GSA under authority of 44 U.S.C. 2904 and 2906, in accordance with the GSA regulations and any other relevant (i.e., GSA or Commerce) directive, where such disclosure shall not be used to make determinations about individuals;
- 8) another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c));
- 9) the Office of Personnel Management (OPM) for personnel research purposes; and
- 10) the Office of Management and Budget (OMB) for legislative coordination and clearance.

If you do not furnish the information requested on this form, the USPTO may not be able to process and/or examine your submission, which may result in termination of proceedings, abandonment of the application, and/or expiration of the patent.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

U.S. PATENTS							Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
	1	5893570	A	1999-04-13	Kehrmann, Michael F.			
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U.S. PATENT APPLICATION PUBLICATIONS							Remove	
Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear		
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FOREIGN PATENT DOCUMENTS							Remove	
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear	T ⁵
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If you wish to add additional Foreign Patent Document citation information please click the Add button								Add
NON-PATENT LITERATURE DOCUMENTS								Remove
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.						T ⁵

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

	1	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977, Combined Search and Examination Report under Sections 17 & 18(3), Application No. GB2401780.8, dated March 6, 2024 (4 pages).	☐
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If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
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	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sitler/	Date (YYYY-MM-DD)	2024-03-27
Name/Print	Louis H. Sitler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
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5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

**CERTIFICATE OF ELECTRONIC
TRANSMISSION**

I hereby certify that this correspondence for Application No. 18/349,347 is being electronically transmitted to the U.S. Patent and Trademark Office, Technology Center 1771, via EFS-WEB, on March 27, 2024.

/Louis H. Sitler/ 3/27/24
Louis H. Sitler, Reg. No. 81,818 Date

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gary Schmit
Serial No.: 18/349,347
Filed: July 10, 2023
Group Art Unit: 1771
Confirmation No.: 8412
Examiner: Campanell, Francis C.
Title: **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**
Attorney Docket: SSCO-03US

Cincinnati, Ohio 45202

March 27, 2024

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT AND
STATEMENT OF CERTIFICATION UNDER § 1.704(d)**

Applicant previously filed a Petition to Withdraw the above-identified patent application from issue, after payment of the Issue Fee, pursuant to 37 CFR §1.313(c)(2), for consideration of a Quick Path Information Disclosure Statement filed on March 12, 2024. The Petition to Withdraw the application from issue was granted on March 12, 2024. Applicant now files herewith a Supplemental Information Disclosure Statement in connection with the above-identified patent application.

In accordance with the duty of candor and good faith imposed by 37 C.F.R. §1.56 and means of complying therewith according to 37 C.F.R. §§1.97 and 1.98, the references listed on the attached Form PTO/SB/08a (01-22) are called to the attention of the U.S. Patent and Trademark Office in connection with the above-identified patent application. Each item of information contained in the information disclosure statement was first cited in an Examination Report dated March 6, 2024, received from the United Kingdom Intellectual Property Office in pending UK Patent Application No: GB2401780.8, owned by the Applicant of the present patent application.

No admission is made that the cited items of information represent the prior art or that the cited items of information is the most material art. Applicant makes no assertions with regard to the materiality of the cited items of information. The Examiner is urged to consider the cited items of information listed on the attached Form PTO/SB/08a, and to make an independent decision with respect to their materiality.

Certification under 37 C.F.R. § 1.704(d)

Each item of information contained in the information disclosure statement was first cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in § 1.56(c) more than thirty days prior to the filing of the information disclosure statement.

Applicant does not believe that this response requires that any fees be submitted, however, if any fees are deemed necessary, these may be charged to Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

/Louis H. Sitler/
Louis H. Sitler, Reg. No. 81,818

600 Vine Street, Suite 2800
Cincinnati, OH 45202
(513) 707-0411 - Voice
(513) 241-6234 - Facsimile

I hereby certify that this correspondence for Application No. 18/349,347 is being electronically transmitted to the U.S. Patent and Trademark Office, Technology Center 1771, via EFS-WEB, on April 24, 2024.

PATENT

Applicant: Gary Schmit
Serial No.: 18/349,347
Filed: July 10, 2023
Group Art Unit: 1771
Confirmation No.: 8412
Examiner: Campanell, Francis C.
Title: **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**
Attorney Docket: SSCO-03US

April 24, 2024

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Commissioner:

In response to the corrected Notice of Allowability issued on April 24, 2024, Applicant hereby requests that the Issue Fee paid on February 15, 2024 be applied towards the Issue Fee required by the new corrected Notice of Allowability issued on April 24, 2024.

Additionally, Applicant received original granted U.S. Patent No.11,931,661 from the U.S. Patent and Trademark Office. In view of the QPIDS filed

Application No. 18/349,347
Request Dated 4/24/24

on March 12, 2024, and the Supplemental Information Disclosure Statement filed on March 27, 2024, Applicant hereby requests that the U.S. Patent and Trademark Office issue a new original patent to Applicant showing the references cited in the Information Disclosure Statement filed with the QPIDS on March 12, 2024 and the references cited in the Supplemental Information Disclosure Statement filed on March 27, 2024.

Applicant does not believe that this response requires that any fees be submitted, however, if any fees are deemed necessary, these may be charged to Deposit Account No. 23-3000.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

/Louis H. Sitler/
Louis H. Sitler, Reg. No. 81,818

600 Vine Street, Suite 2800
Cincinnati, OH 45202
(513) 707-0411 - Voice
(513) 241-6234 - Facsimile



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412
26875 7590 04/24/2024 WOOD, HERRON & EVANS, LLP 600 VINE STREET SUITE 2800 CINCINNATI, OH 45202			EXAMINER CAMPANELLO, FRANCIS C	
			ART UNIT 1771	PAPER NUMBER
			NOTIFICATION DATE 04/24/2024	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptodock@whe-law.com

Corrected Notice of Allowability	Application No. 18/349,347	Applicant(s) Schmit, Gary	
	Examiner FRANK C CAMPANELL	Art Unit 1771	AIA (FITF) Status Yes

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the communication on 3/12/2024.
☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2. ☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

3. ☒ The allowed claim(s) is/are 1-24 and 26-29 . As a result of the allowed claim(s), you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information , please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov**.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a) ☐ All b) ☐ Some* c) ☐ None of the:

1. ☐ Certified copies of the priority documents have been received.

2. ☐ Certified copies of the priority documents have been received in Application No. _____.

3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)	5. ☒ Examiner's Amendment/Comment
2. ☒ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 3/12/2024 and 3/27/2024.	6. ☐ Examiner's Statement of Reasons for Allowance
3. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material _____.	7. ☐ Other _____.
4. ☐ Interview Summary (PTO-413), Paper No./Mail Date. _____.	

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771	/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771
--	--

Notice of Pre-AIA or AIA Status

1. The present application, filed on or after March 16, 2013, is being examined under the first inventor to file provisions of the AIA.
2. This office action is in response to the IDS of 3/12/2024 and 3/27/2024. Both IDS have been reviewed and the allowance stands as stated on 2/14/2024.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to FRANK C CAMPANELLO whose telephone number is (571)270-3165. The examiner can normally be reached Monday-Friday 9:00-5:00.

Examiner interviews are available via telephone, in-person, and video conferencing using a USPTO supplied web-based collaboration tool. To schedule an interview, applicant is encouraged to use the USPTO Automated Interview Request (AIR) at <http://www.uspto.gov/interviewpractice>.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Prem Singh can be reached on 571-272-6381. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of published or unpublished applications may be obtained from Patent Center. Unpublished application information in Patent Center is available to registered users. To file and manage patent submissions in Patent Center, visit: <https://patentcenter.uspto.gov>. Visit <https://www.uspto.gov/patents/apply/patent-center> for more information about Patent Center and <https://www.uspto.gov/patents/docx> for information about filing in DOCX format. For

Application/Control Number: 18/349,347
Art Unit: 1771

Page 3

additional questions, contact the Electronic Business Center (EBC) at 866-217-9197

(toll-free). If you would like assistance from a USPTO Customer Service

Representative, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/FRANCIS C CAMPANELL/
Examiner, Art Unit 1771

/PREM C SINGH/
Supervisory Patent Examiner, Art Unit 1771

<i>Search Notes</i> 	Application/Control No. 18/349,347	Applicant(s)/Patent Under Reexamination Schmit, Gary
	Examiner FRANK C CAMPANELL	Art Unit 1771

CPC - Searched*		
Symbol	Date	Examiner
A63G21/02 OR C10M107/38 OR C10M107/50 OR C10M125/04 OR C10M169/04 OR C10M2201/05 OR C10M2213/0623 OR C10M2229 /0475 OR C10N2050/023).cpc.	11/02/2023	FCC

CPC Combination Sets - Searched*		
Symbol	Date	Examiner

US Classification - Searched*			
Class	Subclass	Date	Examiner
472	88	11/02/2023	FCC

* See search history printout included with this form or the SEARCH NOTES box below to determine the scope of the search.

Search Notes		
Search Notes	Date	Examiner
Inventor and assignee search done. See search history for text modification of cpc and class searches.	11/02/2023	FCC
search updated	02/07/2024	FCC
search updated	04/20/2024	FCC

Interference Search			
US Class/CPC Symbol	US Subclass/CPC Group	Date	Examiner
	interference search done	02/07/2024	FCC

/FRANCIS C CAMPANELL/ Examiner, Art Unit 1771	/PREM C SINGH/ Supervisory Patent Examiner, Art Unit 1771
--	--

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347	
	Filing Date		2023-07-10	
	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

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	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

1	UK Intellectual Property Office, Patents Act 1977: Observations under Section 21, Letter to Applicant's counsel from UK IPO, regarding observations received from a third party in Application No. GB23143715.5, dated February 23, 2024 (1 page).	☐
2	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Observation submitted: cover email to UK Intellectual Property Office, regarding Urgent Observations Under Section 21 UKPA, submitted by Third Party on February 21, 2024 (6 pages).	☐
3	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Observation submitted: email regarding 6 person wipeout, email dated March 3, 2019 (1 page).	☐
4	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, 6 Man Meltown Cage Attachment, submitted by Third Party on February 21, 2024 (6 pages).	☐
5	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Slick Slide Co Intro Attachment, submitted by Third Party on February 21, 2024 (12 pages).	☐
6	UK Intellectual Property Office, Observation under Section 21 from a Third Party regarding UK Application No. GB2314317.5, Observation submitted: Second email to UK Intellectual Property Office regarding Urgent Observations Under Section 21 UKPA, submitted by Third Party on February 22, 2024 (7 pages).	☐
7	UK Intellectual Property Office, Patents Act 1977: Observations under Section 21 received from a third party regarding Application No. GB2314317.5, Reply email from IPO, acknowledging receipt of observations, email dated February 22, 2024 (1 page).	☐
8	UK Intellectual Property Office, Patents Act 1977, Examination Report under Section 18(3), Application No. GB2314317.5, dated March 6, 2024 (2 pages).	☐

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/FRANCIS C CAMPANELL/	Date Considered	04/20/2024
--------------------	-----------------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
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	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

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OR

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☐ See attached certification statement.

☒ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sitler/	Date (YYYY-MM-DD)	2024-03-12
Name/Print	Louis H. Sitler	Registration Number	81,818

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The information provided by you in this form will be subject to the following routine uses:

1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these records.
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6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

PTO/SB/08a (01-22)

Approved for use through 05/31/2024. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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	First Named Inventor	Gary Schmit		
	Art Unit	1771		
	Examiner Name	Campanell, Francis C.		
	Attorney Docket Number	SSCO-03US		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		18349347
	Filing Date		2023-07-10
	First Named Inventor	Gary Schmit	
	Art Unit	1771	
	Examiner Name	Campanell, Francis C.	
	Attorney Docket Number	SSCO-03US	

1	INTELLECTUAL PROPERTY OFFICE, Patents Act 1977, Combined Search and Examination Report under Sections 17 & 18(3), Application No. GB2401780.8, dated March 6, 2024 (4 pages).	☐
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Examiner Signature	/FRANCIS C CAMPANELL/	Date Considered 04/20/2024
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		
¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.		

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number	18349347
	Filing Date	2023-07-10
	First Named Inventor	Gary Schmit
	Art Unit	1771
	Examiner Name	Campanell, Francis C.
	Attorney Docket Number	SSCO-03US

CERTIFICATION STATEMENT

Please see 37 CFR 1.97 and 1.98 to make the appropriate selection(s):

☒ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).

OR

☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(2).

☒ See attached certification statement.

☐ The fee set forth in 37 CFR 1.17 (p) has been submitted herewith.

☐ A certification statement is not submitted herewith.

SIGNATURE

A signature of the applicant or representative is required in accordance with CFR 1.33, 10.18. Please see CFR 1.4(d) for the form of the signature.

Signature	/Louis H. Sitler/	Date (YYYY-MM-DD)	2024-03-27
Name/Print	Louis H. Sitler	Registration Number	81,818

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
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9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.



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APPLICATION NO.	ISSUE DATE	PATENT NO.	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	06/04/2024	11998854	SSCO-03US	8412

26875 7590 05/15/2024
WOOD, HERRON & EVANS, LLP
600 VINE STREET
SUITE 2800
CINCINNATI, OH 45202

ISSUE NOTIFICATION

The projected patent number and issue date are specified above. The patent will issue electronically. The electronically issued patent is the official patent grant pursuant to 35 U.S.C. § 153. The patent may be accessed on or after the issue date through Patent Center at <https://patentcenter.uspto.gov/>. The patent will be available in both the public and the private sides of Patent Center. Further assistance in electronically accessing the patent, or about Patent Center, is available by calling the Patent Electronic Business Center at 1-888-217-9197.

The USPTO is implementing electronic patent issuance with a transition period, during which period the USPTO will mail a ceremonial paper copy of the electronic patent grant to the correspondence address of record. Additional copies of the patent (i.e., certified and presentation copies) may be ordered for a fee from the USPTO's Certified Copy Center at <https://certifiedcopycenter.uspto.gov/index.html>. The Certified Copy Center may be reached at (800)972-6382.

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 0 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Center (<https://patentcenter.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Patents Stakeholder Experience (OPSE), Stakeholder Support Division (SSD) at (571)-272-4200.

INVENTOR(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional inventors):

Mr.Gary Schmit, Phoenix, AZ;

APPLICANT(s) (Please see PATENT CENTER site <https://patentcenter.uspto.gov> for additional applicants):

Slick Slide LLC, Phoenix, AZ;

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
18/349,347	07/10/2023	Gary Schmit	SSCO-03US	8412
26875 7590 06/04/2024 WOOD, HERRON & EVANS, LLP 600 VINE STREET SUITE 2800 CINCINNATI, OH 45202			EXAMINER CAMPANELLO, FRANCIS C	
			ART UNIT 1771	PAPER NUMBER
			NOTIFICATION DATE 06/04/2024	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

usptodock@whe-law.com

APPLICATION NO.	ISSUE DATE	PATENT NO.
18/349,347	04-Jun-2024	11998854

WOOD, HERRON & EVANS, LLP
600 VINE STREET
CINCINNATI, OH 45202

EGRANT NOTIFICATION

Your electronic patent grant (eGrant) is now available, which can be accessed via Patent Center at <https://patentcenter.uspto.gov>

The electronic patent grant is the official patent grant under 35 U.S.C. 153. For more information, please visit <https://www.uspto.gov/electronicgrants>

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor : Gary Schmit
Serial No. : 18/349,347
Filed : July 10, 2023
Patent No. : 11,998,854
Date of Patent : June 4, 2024
Confirmation No. : 8412
Group Art Unit : 1771
Examiner : Campanell, Francis C.
Title : **LOW-FRICTION RECREATIONAL SLIDE SYSTEM**
Attorney Docket No. : SSCO-03US

Cincinnati, Ohio 45202

August 8, 2024

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

LETTER MAKING ERRORS OF RECORD

It is respectfully requested that this letter calling attention to the following errors in the specification in the above-referenced patent be made of record in the patent file.

On Cover Page 2, Other Publications, Line 33, change "reagrding Urgent Observazions Under Section 21 UKPA," to --regarding Urgent Observations Under Section 21 UKPA,--.

In Column 1, Line 66, change "According to an embodiment to the present invention," to --According to an embodiment of the present invention,--.

In Column 6, Lines 58-59, change "approximately 50% of the of the sliding surface **36a**," to --approximately 50% of the sliding surface **36a**,--.

Letter Making Errors of Record
Serial No. 18/349,347
August 8, 2024

In Column 6, Lines 62-63, change "to cover any amount of the of the sliding surface **36a**," to --to cover any amount of the sliding surface **36a**, "--.

In Column 7, Lines 37-38, change "friction between the slide surface **18** and the ride vehicle **14** is primarily influenced by the lubricant" to --friction between the slide surface **18** and the ride vehicle **14** are primarily influenced by the lubricant--.

In Column 10, Lines 10-11, change "approximately 0.25 inches." to --approximately 0.25 inch.--.

In Column 11, Lines 18-19, change "SOLIDWORKS Simulations of the model were ran to determine the performance" to --SOLIDWORKS Simulations of the model were run to determine the performance--.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

/Louis H. Sitler/

Louis H. Sitler, Reg. No. 81,818

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