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**Davis, Jr. et al.**

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(54) **ROLLER SKI SYSTEM AND METHOD OF USE**

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**A63C 17/14** (2006.01)

**A63C 17/04** (2006.01)

(52) **U.S. Cl.**

CPC ..... **A63C 17/1409** (2013.01); **A63C 5/035** (2013.01); **A63C 17/045** (2013.01); **A63C 2017/1472** (2013.01); **A63C 2203/06** (2013.01)

(58) **Field of Classification Search**

CPC ..... **A63C 17/18**; **A63C 17/1409**; **A63C 17/1418**; **A63C 17/045**; **A63C 17/015**; **A63C 17/02**; **A63C 17/1427**; **A63C 17/1463**; **A63C 17/1472**; **A63C 2203/06**; **B62B 5/0485**

See application file for complete search history.

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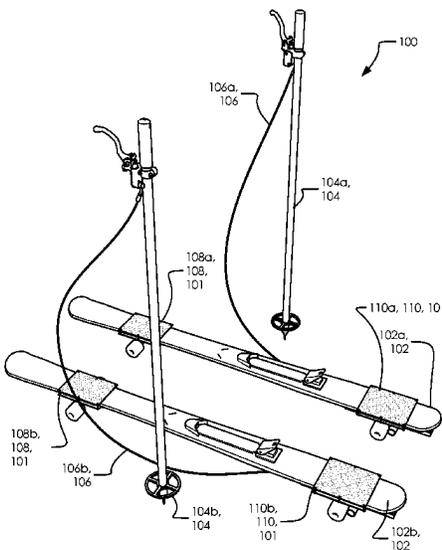
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(57) **ABSTRACT**

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a ski adapters, a skis, a poles and a brake lines. Said ski adapters comprises a front adapters and a rear adapters. Said poles comprises a shaft, a brake lever assembly, a first end, a second end and a grip. Said brake lever assembly comprises said brake lines, a lever and a cable guide. Said front adapters comprises a squeeze plate assembly, a trucks and a wheels. Said rear adapters comprises a braking system, a rear wheel assembly, a squeeze plate assembly, a trucks and a wheels. Said braking system comprises a braking bar, a brake line, a one or more spring assemblies, a splitter and a brake lines. Said one or more spring assemblies comprises a first end, a second end, a first bracket, a second bracket and a one or more braking bar fasteners.

**10 Claims, 13 Drawing Sheets**



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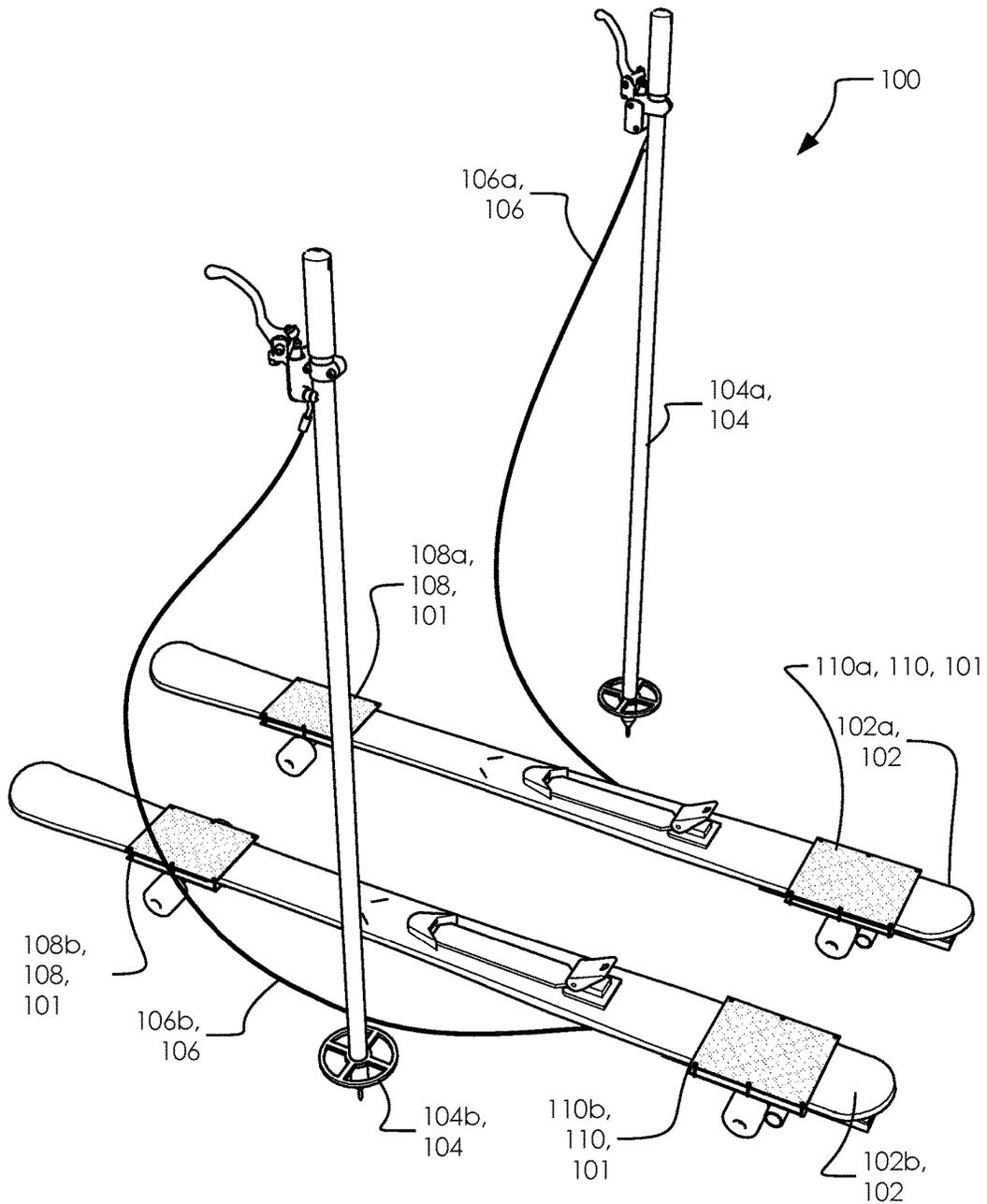


FIG. 1

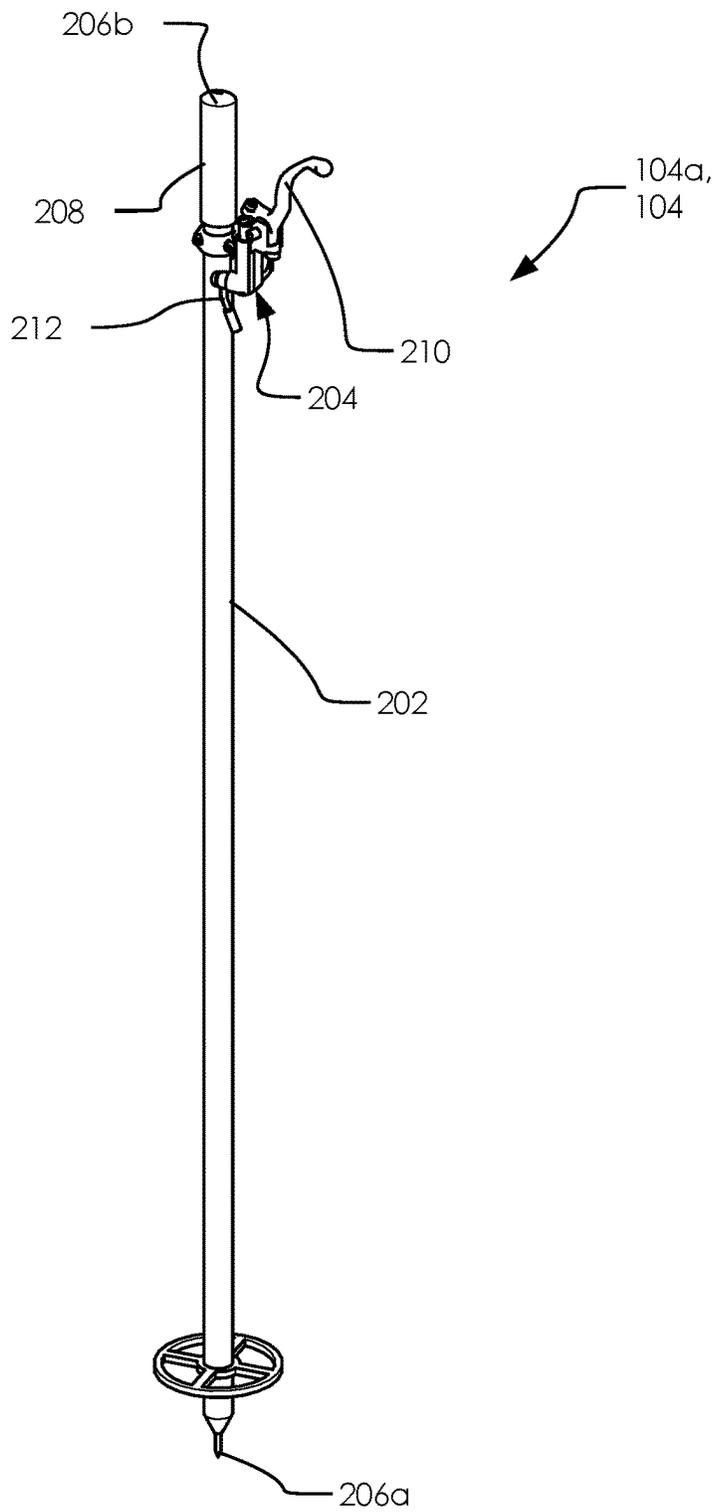


FIG. 2

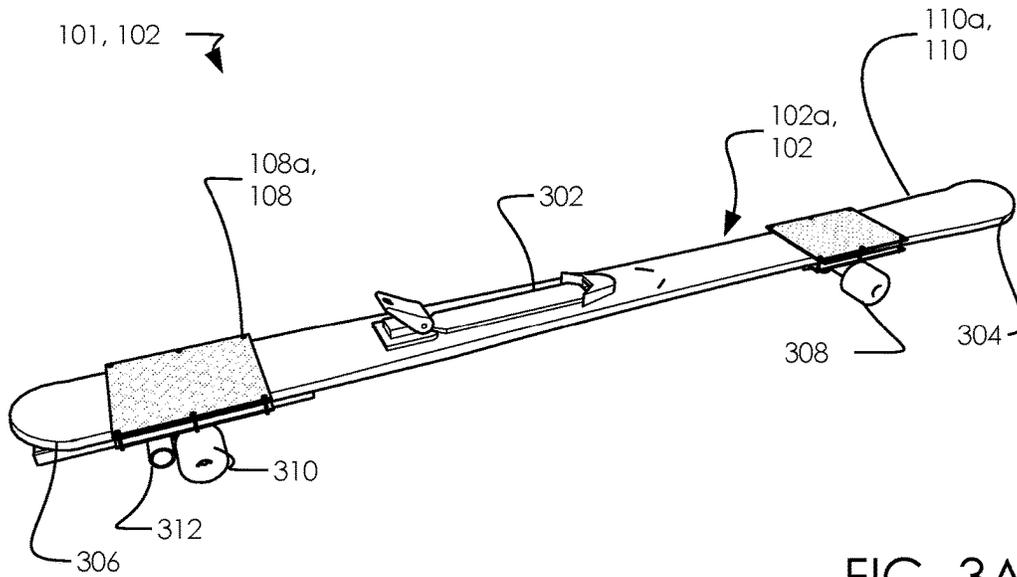


FIG. 3A

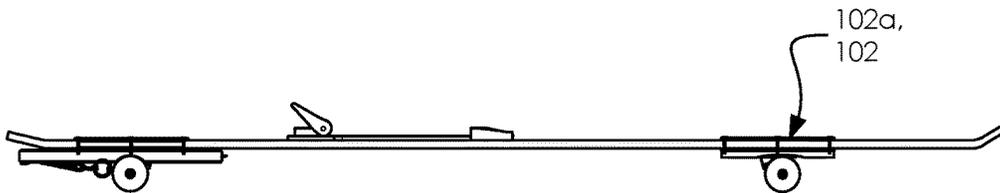


FIG. 3B

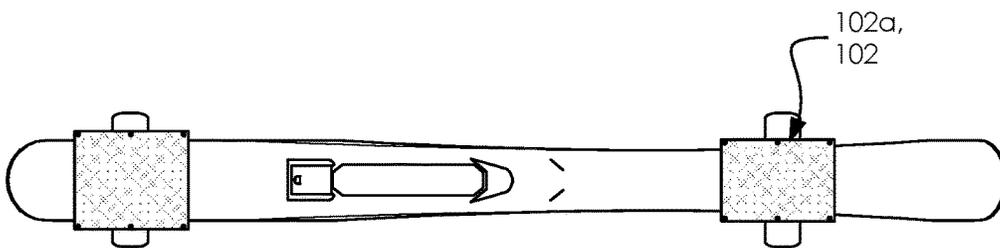


FIG. 3C

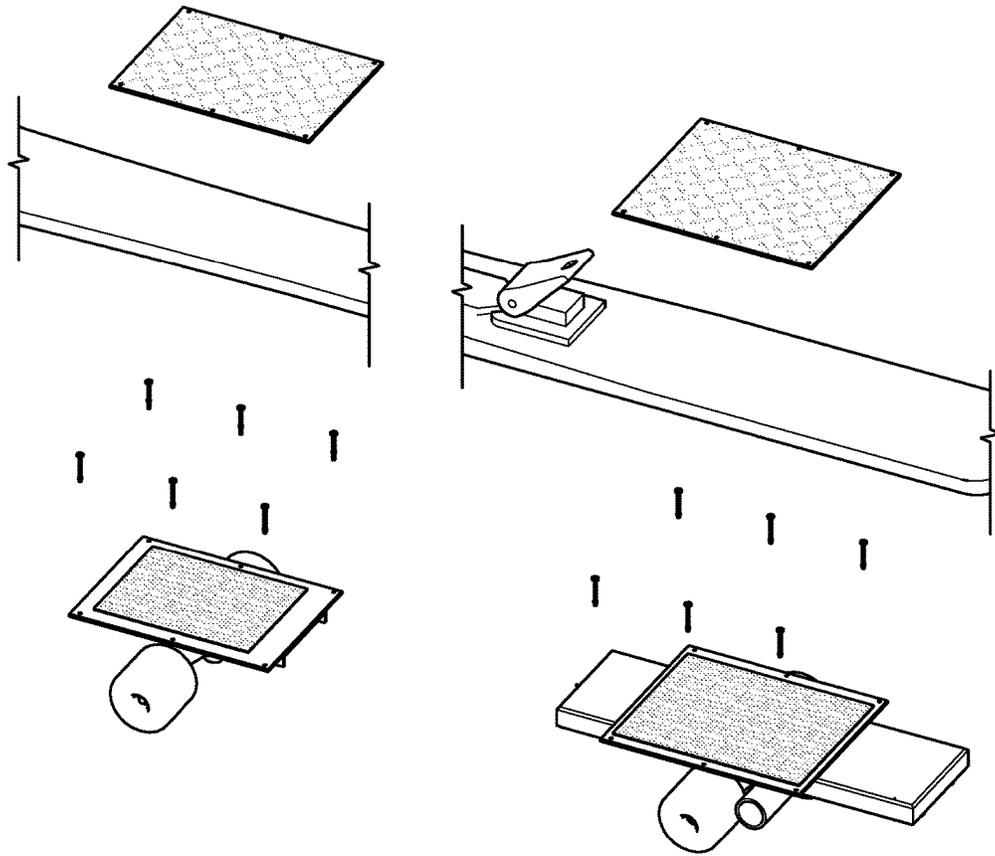


FIG. 4

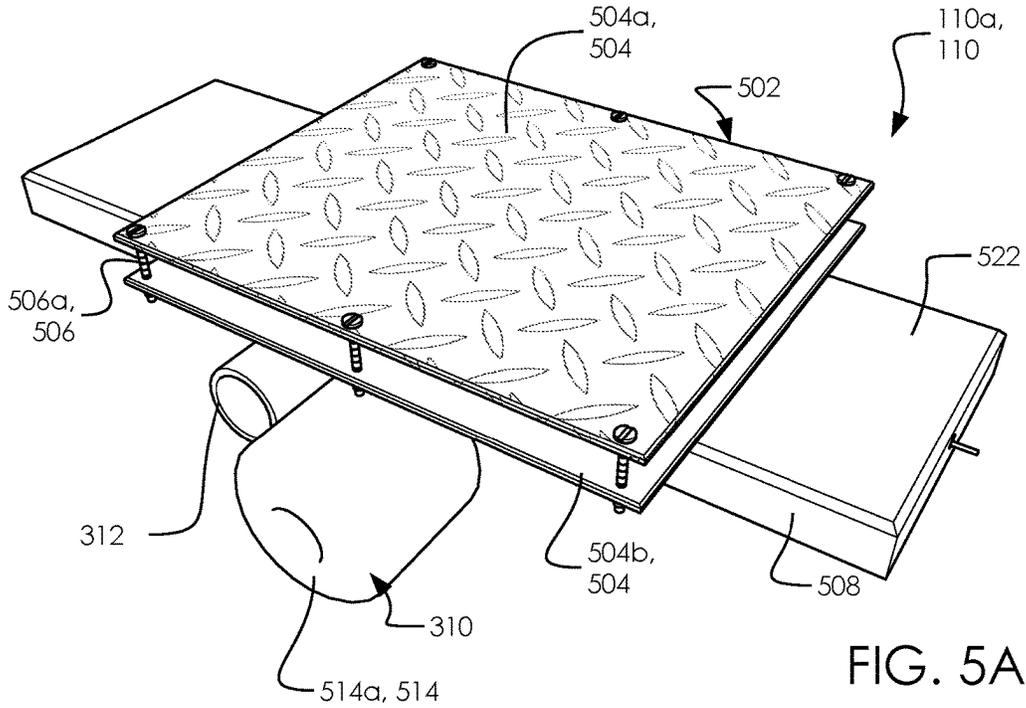


FIG. 5A

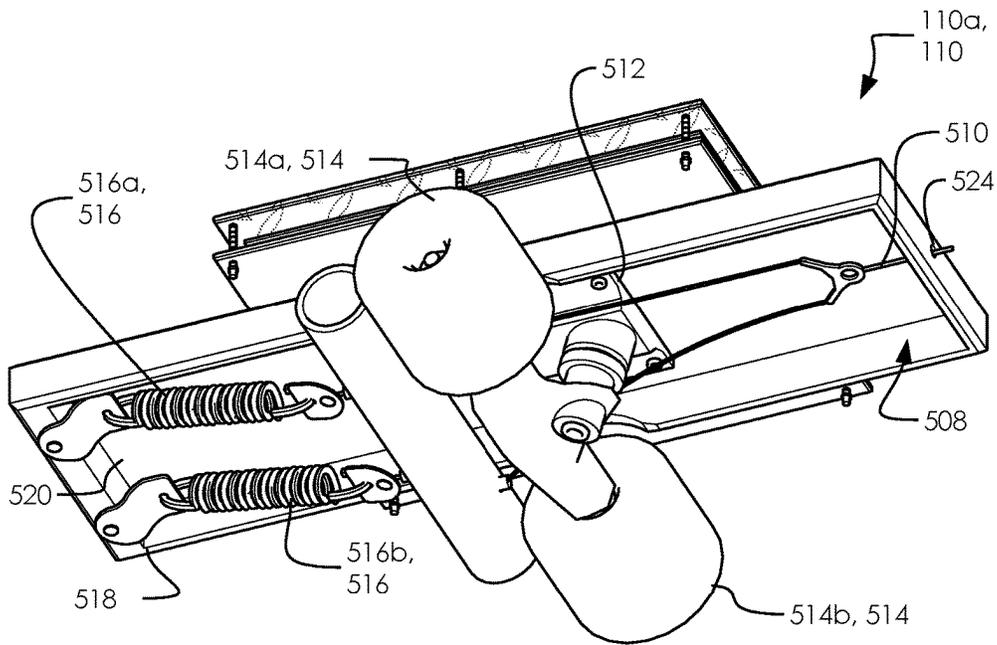
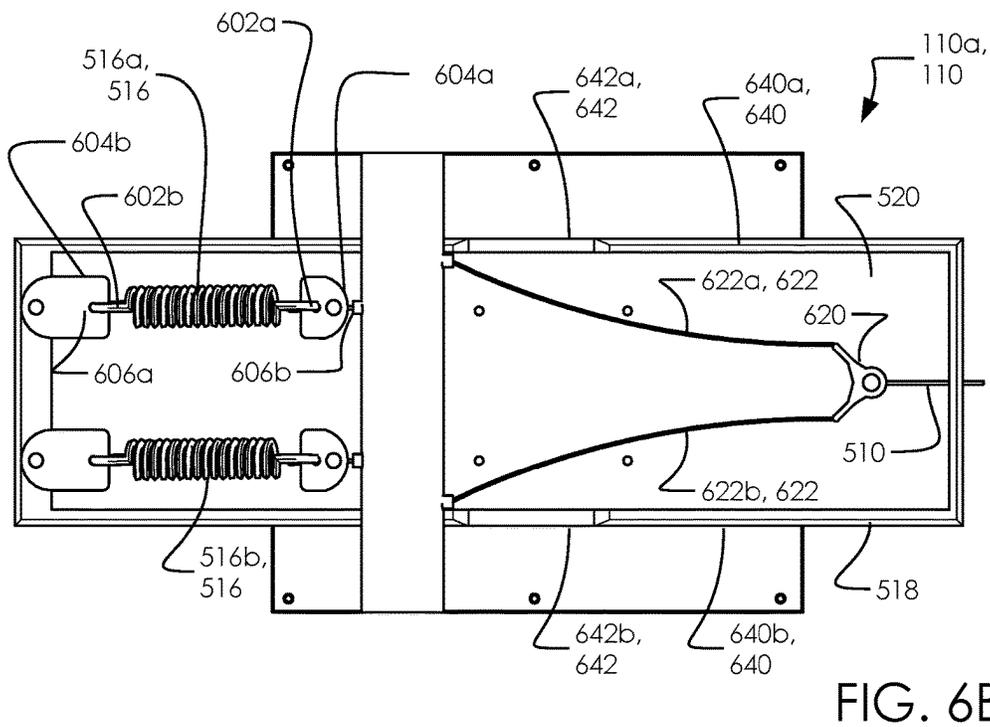
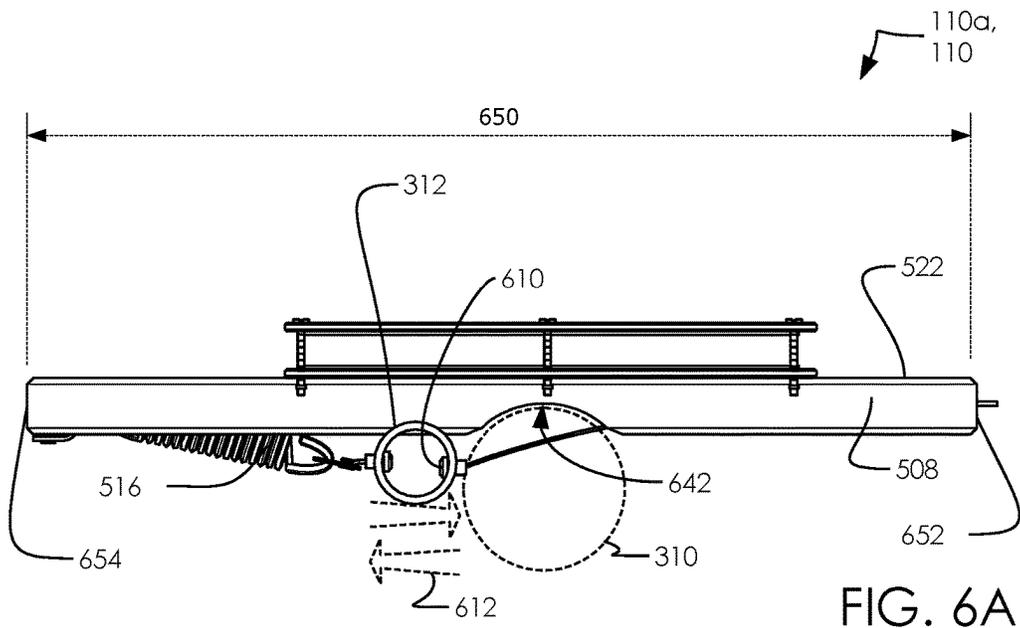


FIG. 5B



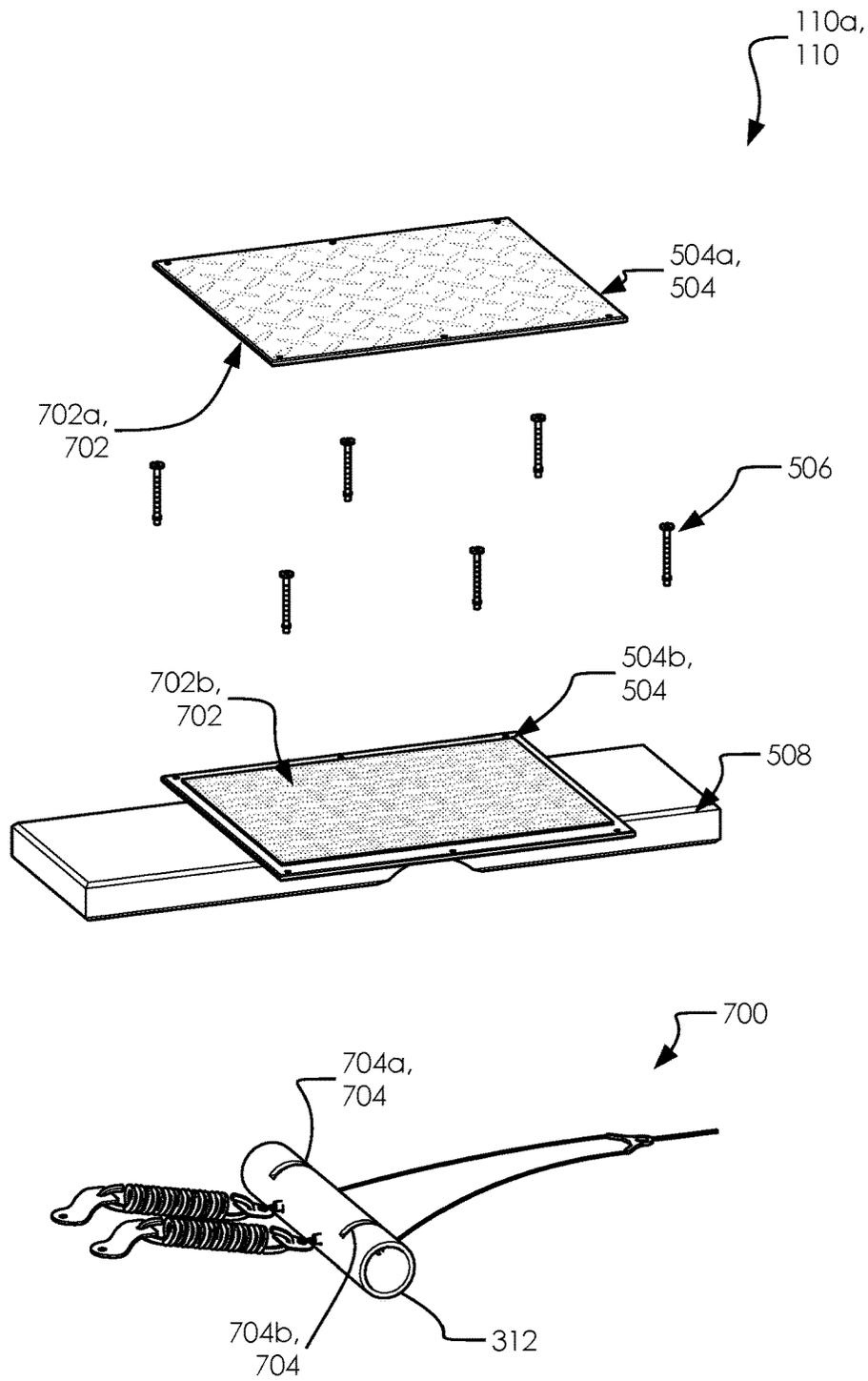


FIG. 7

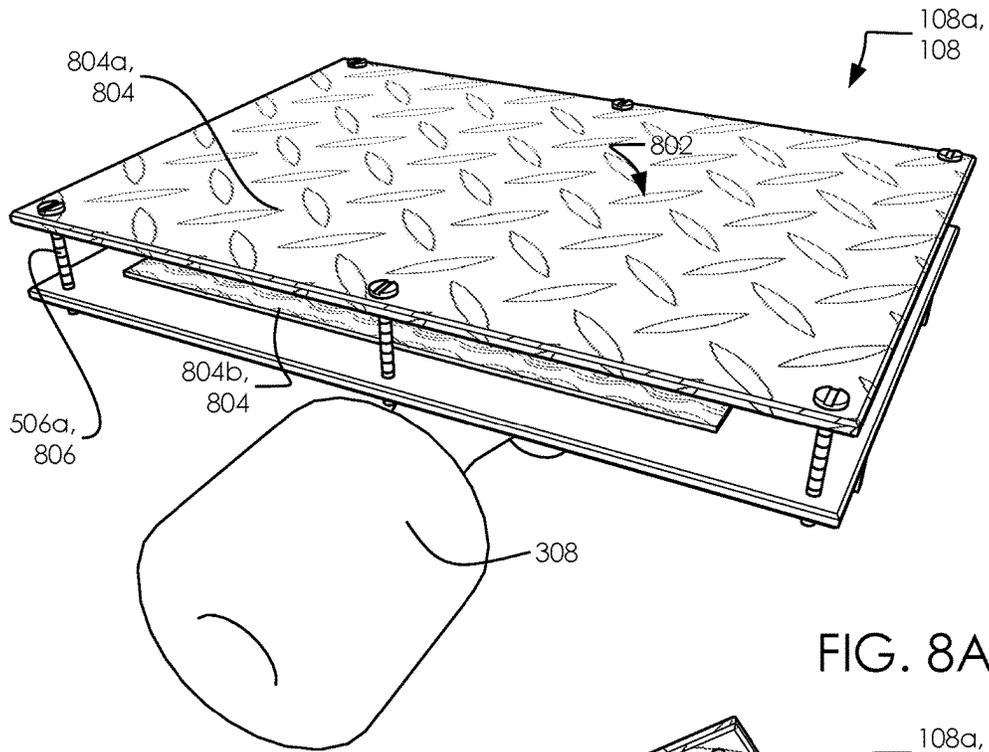


FIG. 8A

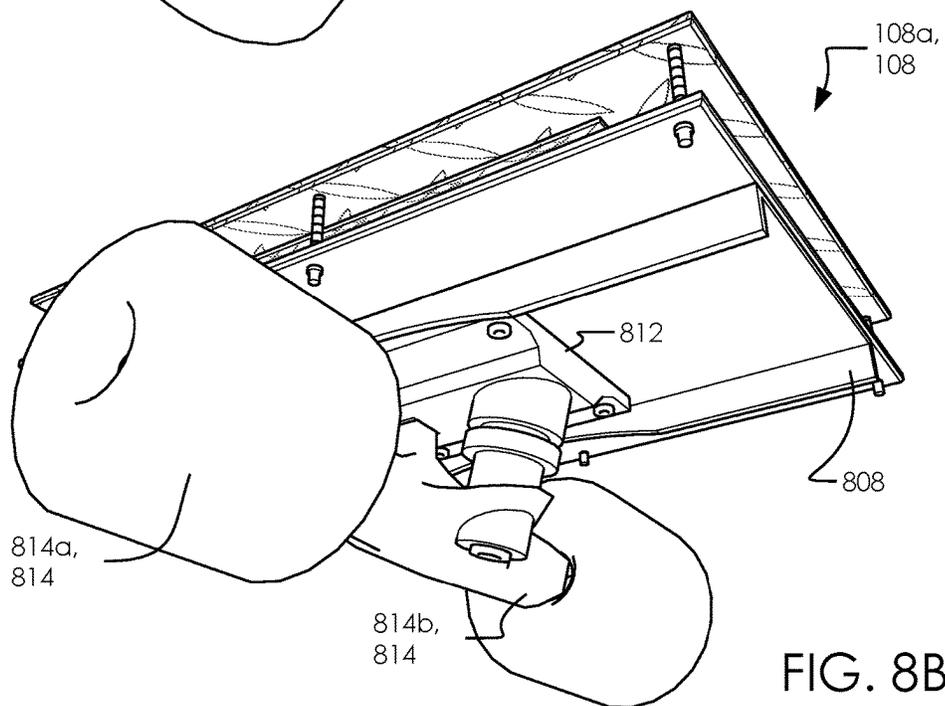


FIG. 8B

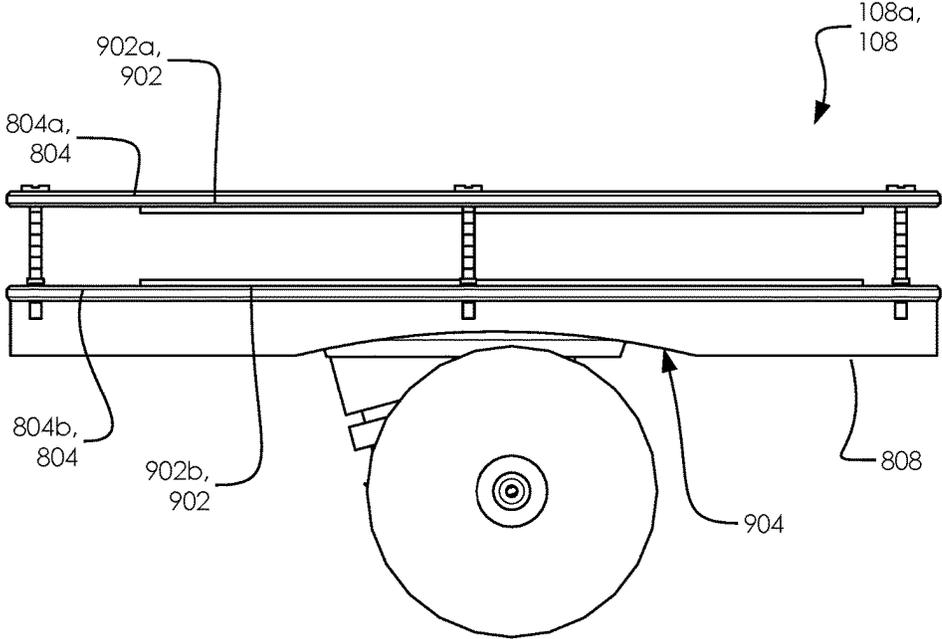


FIG. 9

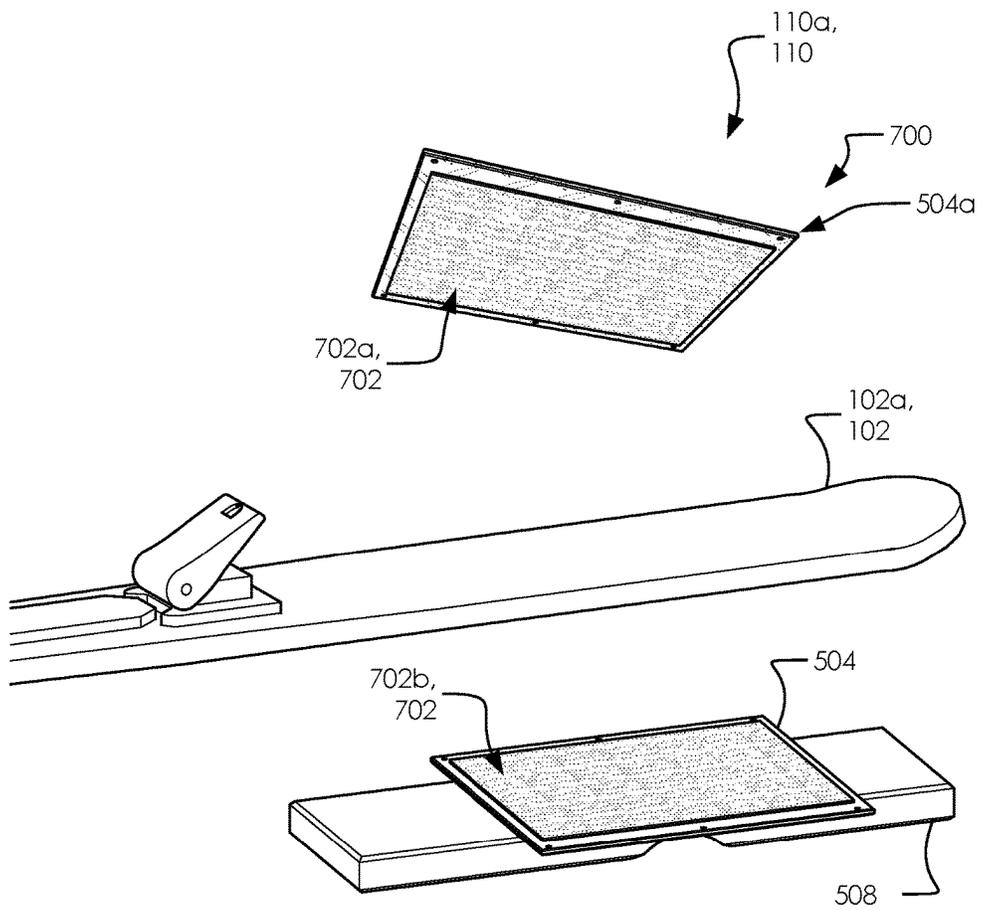


FIG. 10

100

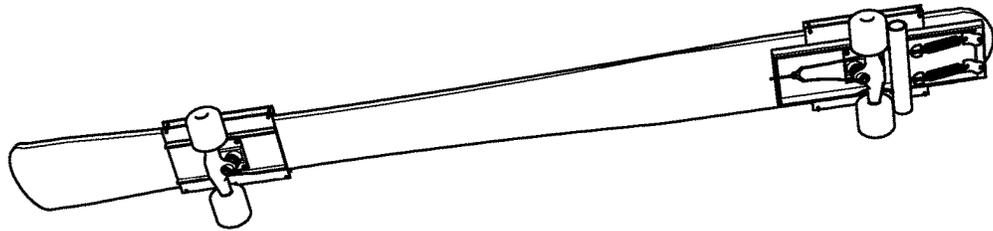


FIG. 11

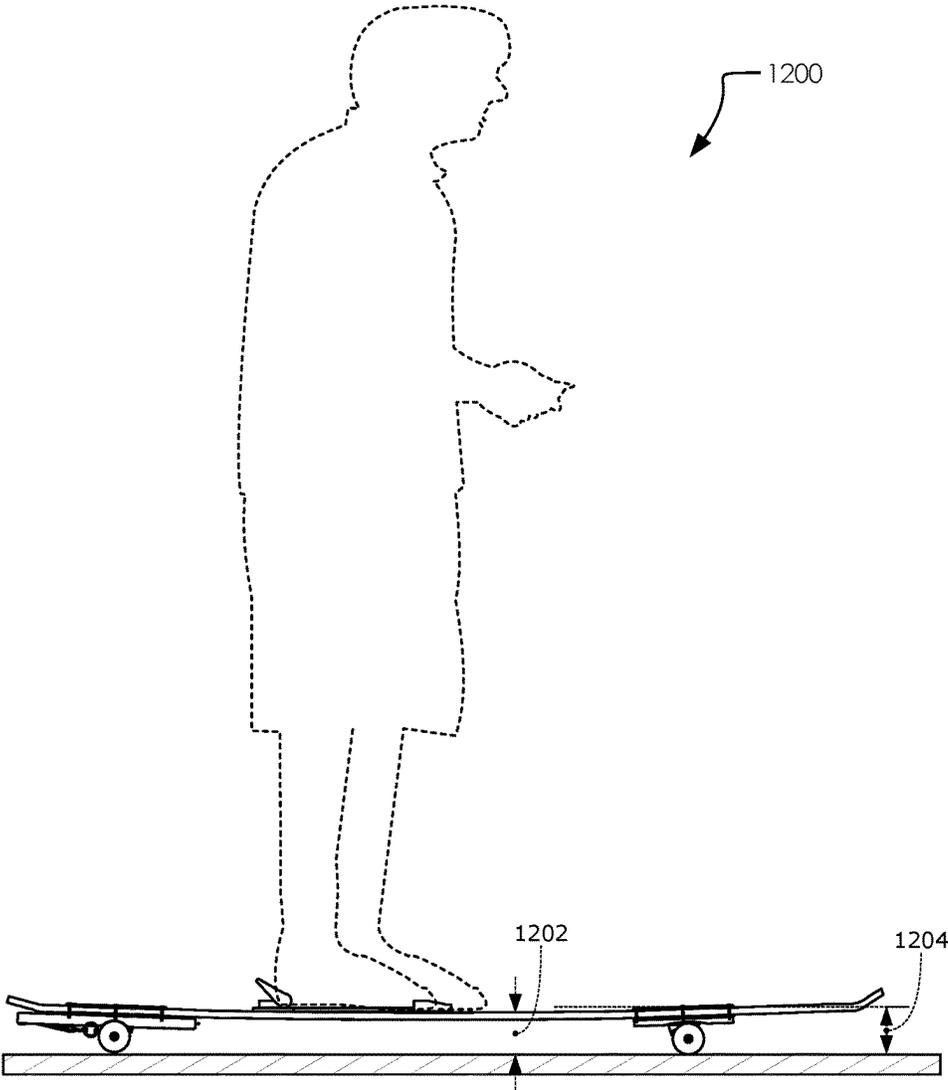


FIG. 12

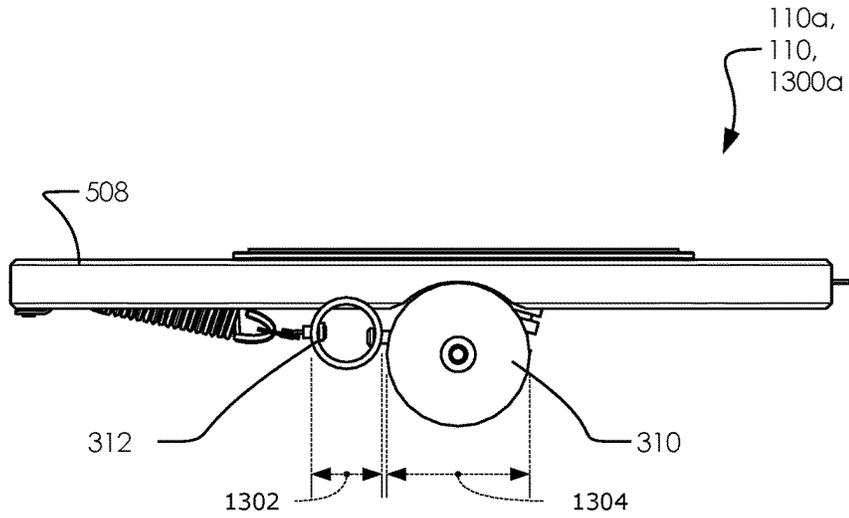


FIG. 13A

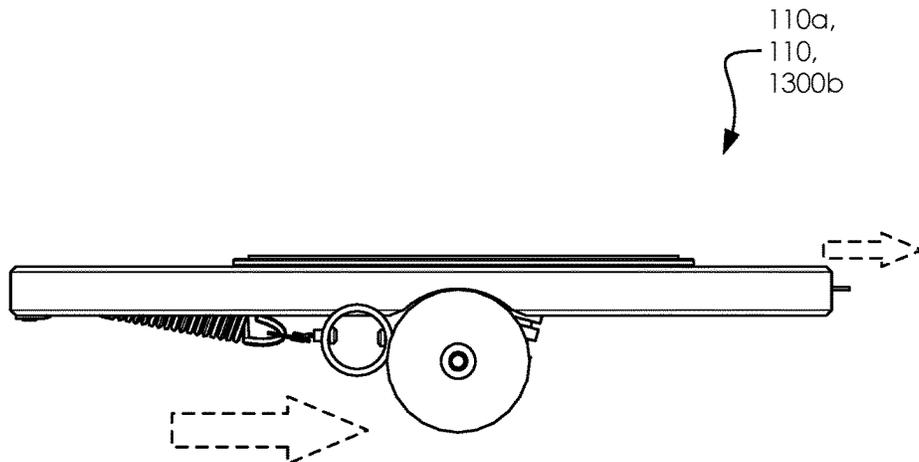


FIG. 13B

**ROLLER SKI SYSTEM AND METHOD OF USE**

CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims benefit to U.S. Patent Application No. 62/346,536 filed on Jun. 6, 2016.

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT (IF APPLICABLE)

Not applicable.

REFERENCE TO SEQUENCE LISTING, A TABLE, OR A COMPUTER PROGRAM LISTING COMPACT DISC APPENDIX (IF APPLICABLE)

Not applicable.

BACKGROUND OF THE INVENTION

Disclosed herein are one or more improvements to the field of wheels attached to two skis. None of the know art is seen to anticipate the claimed invention.

Prior art known to the Applicant includes DE 102012021808 A1; U.S. Pat. Nos. 4,033,596 A; 3,884,486 A; 6,123,348 A; 6,267,394 B1; 8,360,475 B2; 3,436,088 A; 3,365,208 A; 5,474,314 A and 4,134,600 A.

None of the known inventions and patents, taken either singularly or in combination, is seen to describe the instant disclosure as claimed.

BRIEF SUMMARY OF THE INVENTION

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a two ski adapter sets, a two skis, a two poles and a two brake lines. Said two ski adapter sets comprises a front adapters and a rear adapters. Said two poles comprises a shaft, a brake lever assembly, a first end, a second end and a grip. Said brake lever assembly comprises said two brake lines, a lever and a cable guide. Said front adapters comprises a squeeze plate assembly, a truck and a wheels. Said rear adapters comprises a wheel braking system, a rear wheel assembly, a squeeze plate assembly, a truck and a wheels. Said wheel braking system comprises a braking bar, a brake line, a one or more spring assemblies, a splitter and a two brake lines. Said one or more spring assemblies comprises a first end, a second end, a first bracket, a second bracket and a one or more braking bar fasteners. A lower brake compartment comprises a first end, a second end, a brake line aperture and a one or more side portions. Said brake line aperture comprises a hole in said first end of said lower brake compartment, configured to allow a portion of said brake line to pass freely through said brake line aperture. Said braking bar is held in tension between said one or more spring assemblies and said brake line. Said one or more spring assemblies is attached to said second end of said lower brake compartment at one end and said braking bar at said second end. Said braking bar comprises a one or more rail slots. Said one or more rail slots are configured to slide along a portion of said one or more side portions. Said brake lever assembly is configured to pull a portion of said brake line, which in turn selectively pulls said braking bar into a portion of said rear wheel assembly. Said squeeze plate assembly comprises a padding. Said

padding comprises a first padding and a second padding. Said padding comprises cork board configured to protect said two skis while attached. Said squeeze plate assembly selectively holds said rear adapters and front adapters to said two skis.

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a two ski adapter sets, a two skis, a two poles and a two brake lines. Said two ski adapter sets comprises a front adapters and a rear adapters. Said two poles comprises a shaft, a brake lever assembly, a first end, a second end and a grip. Said front adapters comprises a squeeze plate assembly, a truck and a wheels. A wheel braking system comprises a braking bar, a brake line, a one or more spring assemblies, a splitter and a two brake lines. Said braking bar is held in tension between said one or more spring assemblies and said brake line. Said brake lever assembly is configured to pull a portion of said brake line, which in turn selectively pulls said braking bar into a portion of said rear wheel assembly. A squeeze plate assembly comprises a padding.

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a two ski adapter sets, a two skis, a two poles and a two brake lines. Said two ski adapter sets comprises a front adapters and a rear adapters. Said front adapters comprises a squeeze plate assembly, a truck and a wheels. Said rear adapters comprises a wheel braking system, a rear wheel assembly, a squeeze plate assembly, a truck and a wheels. Said squeeze plate assembly comprises a padding. Said padding comprises a first padding and a second padding and are configured to protect said two skis with said squeeze plate assembly attached to said two skis. Said squeeze plate assembly selectively holds said rear adapters and front adapters to said two skis.

BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING

FIG. 1 illustrates a perspective overview view of a roller ski adapter system **100**.  
 FIG. 2 illustrates a perspective overview view of a first pole **104a**.  
 FIG. 3A illustrates a perspective overview view of a first ski **102a**.  
 FIG. 3B illustrates an elevated front side view of a first ski **102a**.  
 FIG. 3C illustrates an elevated top side view of a first ski **102a**.  
 FIG. 4 illustrates a perspective overview view of a roller ski adapter system **100** in exploded view.  
 FIG. 5A illustrates a perspective overview view of a first rear adapter **110a**.  
 FIG. 5B illustrates a perspective bottom side view of a first rear adapter **110a**.  
 FIG. 6A illustrates an elevated front side view of a first rear adapter **110a**.  
 FIG. 6B illustrates an elevated bottom side view of a first rear adapter **110a**.  
 FIG. 7 illustrates a perspective overview view of a first rear adapter **110a** in exploded view.  
 FIG. 8A illustrates a perspective overview view of a first front adapter **108a**.  
 FIG. 8B illustrates a perspective bottom side view of a first front adapter **108a**.  
 FIG. 9 illustrates an elevated front side view of a first front adapter **108a**.  
 FIG. 10 illustrates a perspective overview view of a roller ski adapter system **100** in exploded view.

FIG. 11 illustrates a perspective bottom side view of a roller ski adapter system **100**.

FIG. 12 illustrates an elevated front side view of a bent configuration **1200**.

FIG. 13A illustrates an elevated front side view of an uncompressed configuration **1300a**.

FIG. 13B illustrates an elevated front side view of a compressed configuration **1300b**.

#### DETAILED DESCRIPTION OF THE INVENTION

The following description is presented to enable any person skilled in the art to make and use the invention as claimed and is provided in the context of the particular examples discussed below, variations of which will be readily apparent to those skilled in the art. In the interest of clarity, not all features of an actual implementation are described in this specification. It will be appreciated that in the development of any such actual implementation (as in any development project), design decisions must be made to achieve the designers' specific goals (e.g., compliance with system- and business-related constraints), and that these goals will vary from one implementation to another. It will also be appreciated that such development effort might be complex and time-consuming, but would nevertheless be a routine undertaking for those of ordinary skill in the field of the appropriate art having the benefit of this disclosure. Accordingly, the claims appended hereto are not intended to be limited by the disclosed embodiments, but are to be accorded their widest scope consistent with the principles and features disclosed herein.

These parts are illustrated in the figures and discussed below:

a roller ski adapter system **100**

a two ski adapter sets **101**

a two skis **102**

a first ski **102a**

a second ski **102b**

a two poles **104**

a first pole **104a**

a second pole **104b**

a two brake lines **106**

a first brake line **106a**

a second brake line **106b**

a front adapters **108**

a first front adapter **108a**

a second front adapter **108b**

a rear adapters **110**

a first rear adapter **110a**

a second rear adapter **110b**

a shaft **202**

a brake lever assembly **204**

a first pole end **206a**

a second pole end **206b**

a grip **208**

a lever **210**

a cable guide **212**

a bindings **302**

a ski front end **304**

a ski rear end **306**

a front wheel assembly **308**

a rear wheel assembly **310**

a braking bar **312**

a front squeeze plate assembly **502**

a squeeze plates **504**

an upper plate **504a**

a lower plate **504b**

a plurality of bolt assemblies **506**

a first bolt assembly **506a**

a lower brake compartment **508**

a brake line **510**

a rear truck **512**

a wheels **514**

a one or more spring assemblies **516**

a first spring assembly **516a**

a second spring assembly **516b**

a lip **518**

a bottom surface **520**

a top surface **522**

a brake line aperture **524**

a first spring end **602a**

a second spring end **602b**

a first bracket **604a**

a second bracket **604b**

a first fastener assembly **606a**

a second fastener assembly **606b**

a one or more braking bar fasteners **610**

a direction of movement **612**

a splitter **620**

a two brake lines **622**

a first brake line **622a**

a second brake line **622b**

a one or more side portions **640**

a first side portion **640a**

a second side portion **640b**

a one or more arches **642**

a first arch **642a**

a second arch **642b**

a length **650**

a first brake compartment end **652**

a second brake compartment end **654**

a wheel braking system **700**

a padding **702**

a first padding **702a**

a second padding **702b**

a one or more rail slots **704**

a first rail slot **704a**

a second rail slot **704b**

a rear squeeze plate assembly **802**

an upper plate **804a**

a lower plate **804b**

a plurality of bolt assemblies **806**

a bolt assembly **806a**

a lower bracket **808**

a front truck **812**

a wheels **814**

a first wheel **814a**

a second wheel **814b**

a one or more paddings **902**

a first padding **902a**

a second padding **902b**

a side rails with arches **904**

a bent configuration **1200**

a stressed height **1202**

an unstressed height **1204**

an uncompressed configuration **1300a**

a compressed configuration **1300b**

a brake bar diameter **1302**

a wheel diameter **1304**

FIG. 1 illustrates a perspective overview view of a roller ski adapter system **100**.

In one embodiment, said roller ski adapter system **100** can comprise said two ski adapter sets **101**.

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In one embodiment, said two ski adapter sets **101** can comprise said front adapters **108** and said rear adapters **110**.

Said roller ski adapter system **100** can be used for training and enjoyment by users with the inspiration of snow skiing (such as downhill and cross-country styles). Said roller ski adapter system **100** can be attached to a wide variety of two skis, such as a two skis **102** (as illustrated, said two skis **102** are representative of all snow two skis (such as alpine and Nordic) and a variety of materials, such as including carbon-Kevlar, laminate, sandwich, torsion box, monocoque, cap or any other as is known in the art.

In one embodiment, said roller ski adapter system **100** can comprise an adapter for attachment to said two skis **102** (which can comprise a first ski **102a** and a second ski **102b**). In one embodiment, said roller ski adapter system **100** can comprise said two skis **102**, a two poles **104** (which can comprise a first pole **104a** and a second pole **104b**), a two brake lines **106** (which can comprise a first brake line **106a** and a second brake line **106b**), a front adapters **108** (which can comprise a first front adapter **108a** and a second front adapter **108b**), and a rear adapters **110** (which can comprise a first rear adapter **110a** and a second rear adapter **110b**).

FIG. 2 illustrates a perspective overview view of a first pole **104a**.

In one embodiment, said two poles **104** can each comprise a shaft **202**, a brake lever assembly **204**, a first pole end **206a**, a second pole end **206b**, and a grip **208**. Said brake lever assembly **204** can comprise a lever **210** and a cable guide **212**. In one embodiment, said cable guide **212** can attach to a portion of said two brake lines **106**. In one embodiment, said lever **210** can be a brake lever as known in the art and able to trigger a wheel braking system (discussed below) within said rear adapters **110**. In one embodiment, said grip **208**, said shaft **202** and said first pole end **206a** can function as known in the art.

Said two poles **104**, as illustrated, comprise but one embodiment of two poles appropriate for said roller ski adapter system **100**. For example, said two poles **104** may have a rounded tip or dulled tip at said first pole end **206a** adapted for use on a hard surface

FIG. 3A illustrates a perspective overview view of a first ski **102a**.

FIG. 3B illustrates an elevated front side view of a first ski **102a**.

FIG. 3C illustrates an elevated top side view of a first ski **102a**.

Said two skis **102** can comprise a ski front end **304**, a ski rear end **306**, a bindings **302** and many other parts well-known in the art. Said front adapters **108** can comprise a braking bar **312** and a rear wheel assembly **310**. Said rear adapters **110** can comprise a front wheel assembly **308**. Said front wheel assembly **308** and said rear wheel assembly **310** can comprise truck and wheels as known in the art of skateboarding. Said braking bar **312** is discussed in more detail below.

FIG. 4 illustrates a perspective overview view of a roller ski adapter system **100** in exploded view.

FIG. 5A illustrates a perspective overview view of a first rear adapter **110a**.

FIG. 5B illustrates a perspective bottom side view of a first rear adapter **110a**.

In one embodiment, said lower brake compartment **508** can comprise said brake line aperture **524**.

In one embodiment, said squeeze plates **504** can comprise said squeeze plates **504**.

In one embodiment, said rear adapters **110** can each comprise: a front squeeze plate assembly **502** comprising a

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squeeze plates **504** (which can comprise an upper plate **504a** and a lower plate **504b**); a plurality of bolt assemblies **506**; said braking bar **312**; a lower brake compartment **508**; a brake line **510**; said rear wheel assembly **310** comprising a rear truck **512**, a wheels **514** (which can comprise a first wheel **514a** and a second wheel **514b**); and a one or more springs **516** (which can comprise a first spring **516a** and a second spring **516b**). Said lower brake compartment **508** can comprise a lip **518**, a bottom surface **520** and a top surface **522**.

In one embodiment, said brake line **510** can comprise a portion of said two brake lines **106**, as illustrated above. In one embodiment, said brake line **510** can be pulled and released with said lever **210** of said brake lever assembly **204** on said two poles **104**. In one embodiment, said brake line **510** can pull a portion of said braking bar **312** in to a portion of said wheels **514**. When said brake line **510** is released, said one or more springs **516** can pull said braking bar **312** away from said wheels **514** and thereby release a braking force from said roller ski adapter system **100**

FIG. 6A illustrates an elevated front side view of a first rear adapter **110a**.

FIG. 6B illustrates an elevated bottom side view of a first rear adapter **110a**.

In one embodiment, said one or more side portions **640** can comprise said first side portion **640a**, said second side portion **640b**, said second side portion **640b** and said one or more arches **642**.

In one embodiment, said one or more arches **642** can comprise said first arch **642a** and said second arch **642b**.

In one embodiment, said rear adapters **110** can comprise said length **650**.

In one embodiment, said lower brake compartment **508** can comprise said first brake compartment end **652** and said second brake compartment end **654**.

In one embodiment, said lip **518** can comprise said one or more side portions **640**.

A portion of said rear wheel assembly **310** is shown in dashed lines in FIG. 6A.

Each of said one or more springs **516** can comprise a first spring end **602a** and a second spring end **602b**. In one embodiment, said first spring end **602a** attaches to a first bracket **604a** which is, in turn, attached to a portion of said braking bar **312**; likewise, said second spring end **602b** can be attached to a second bracket **604b** which is, in turn, attached to a portion of said bottom surface **520**.

Said braking bar **312** is pulled between said one or more springs **516** and said brake line **510** in order to apply braking force on said rear wheel assembly **310**, as discussed above. In one embodiment, said braking bar **312** is loosely attached to said lower brake compartment **508** with a one or more braking bar fasteners **610**; wherein, said braking bar **312** selectively moves toward and away from said rear wheel assembly **310** along a direction of movement **612** as acted upon by said brake line **510** and said one or more springs **516**.

Said brake line **510** can further comprise a splitter **620** and a one or more two brake lines **622** (which can comprise a first brake line **622a** and a second brake line **622b**), as illustrated.

In one embodiment, said lip **518** can comprise side portions **640** (which can comprise a first side **640a** and a second side **640b**). In one embodiment, said side portions **640** each comprises arches **642** (which can comprise a first arch **642a** and a second arch **642b**). In one embodiment, said

arches **642** to ensure that said rear wheel assembly **310** does not accidentally drag against said lower brake compartment **508**, as illustrated.

In one embodiment, said braking bar **312** can held in tension between said one or more springs **516** and said brake line **510** in an at rest position (as illustrated) with said braking bar **312** not pressed against a portion of said rear wheel assembly **310** and an engaged position with said braking bar **312** pressed against a portion of said rear wheel assembly **310**. Said one or more springs **516** can be used to ensure that the system does not accidentally lock up and press against said rear wheel assembly **310** an unexpected times

FIG. 7 illustrates a perspective overview view of a first rear adapter **110a** in exploded view.

In one embodiment, said wheel braking system **700** can comprise said padding **702**.

In one embodiment, said padding **702** can comprise said first padding **702a** and said second padding **702b**.

In one embodiment, said one or more rail slots **704** can comprise said first rail slot **704a** and said second rail slot **704b**.

In one embodiment, said braking bar **312** can comprise said second padding **702b** and said one or more rail slots **704**.

Said rear adapters **110** can comprise a wheel braking system **700** which can comprise said braking bar **312**, said one or more springs **516**, said brake line **510**, said two brake lines **106**, and other parts, as illustrated. Said wheel braking system **700** is broken apart from other portions of said rear adapters **110** for this exploded view.

In one embodiment, said squeeze plates **504** each comprise a padding **702** (which can comprise a first padding **702a** and a second padding **702b**). Said second padding **702b** is illustrated below and referred to here. In one embodiment, said padding **702** can comprise cork pads being adhered to said squeeze plates **504**.

In one embodiment, said braking bar **312** can comprise a two slots **704** (which can comprise a first slot **704a** and a second slot **704b**). In one embodiment, said two slots **704** can seat around said side portions **640** of said lower brake compartment **508**. Accordingly, said braking bar **312** can move along said direction of movement **612** with said two slots **704** guiding the movement

FIG. 8A illustrates a perspective overview view of a first front adapter **108a**.

FIG. 8B illustrates a perspective bottom side view of a first front adapter **108a**.

In one embodiment, said wheels **814** can comprise said first wheel **814a** and said second wheel **814b**.

In one embodiment, said front wheel assembly **308** can comprise said front truck **812**, said front truck **812** and said wheels **814**.

Said front adapters **108** can comprise a rear squeeze plate assembly **802** comprising a squeeze plates **804** (which can comprise an upper plate **804a** and a lower plate **804b**); a plurality of bolt assemblies **806**; and said front wheel assembly **308** comprising a front truck **812**, and a wheels **814** (which can comprise a first wheel **814a** and a second wheel **814b**).

In one embodiment, said rear squeeze plate assembly **802** and said front squeeze plate assembly **502** can squeeze around portions of said two skis **102** by pressing portions of said upper plate **504a** and said upper plate **804a** into said lower plate **504b** and said lower plate **804b**, as is known in the art. In one embodiment, said plurality of bolt assemblies **506** of said front squeeze plate assembly **502** can comprise

a first bolt assembly **506a**; and said plurality of bolt assemblies **806** of said rear squeeze plate assembly **802** can comprise a bolt assembly **806a**.

In one embodiment, said lower bracket **808** can support a portion of said front truck **812**, as illustrated

FIG. 9 illustrates an elevated front side view of a first front adapter **108a**.

In one embodiment, said one or more paddings **902** can comprise said first padding **902a** and said second padding **902b**.

In one embodiment, said lower bracket **808** can comprise said side rails with arches **904**.

In one embodiment, said squeeze plates **504** can comprise said one or more paddings **902**.

In one embodiment, said squeeze plates **504** each comprise a padding **902** (which can comprise a first padding **902a** and a second padding **902b**). Said second padding **902b** is illustrated below and referred to here.

In one embodiment, said lower bracket **808** can comprise side rails with arches **904** to ensure that said front wheel assembly **308** does not accidentally drag against said lower bracket **808**, as illustrated

FIG. 10 illustrates a perspective overview view of a roller ski adapter system **100** in exploded view.

Here, said padding **702** are illustrated more clearly with a lower portion of said upper plate **504a** being shown. Said padding **702** protect a portion of said two skis **102** so that users can use their expensive winter equipment during warm and dry months without damaging the same

FIG. 11 illustrates a perspective bottom side view of a roller ski adapter system **100**.

FIG. 12 illustrates an elevated front side view of a bent configuration **1200**.

In one embodiment, said roller ski adapter system **100** can comprise said bent configuration **1200**, said stressed height **1202** and said unstressed height **1204**.

In one embodiment, said wheel braking system **700** can comprise said unstressed height **1204**.

In one embodiment, said roller ski adapter system **100** can allow said two skis **102** to bend with the weight of a user.

One objective when placing said two ski adapter sets **101** on said two skis **102**, with respect to said first pole end **206a** and said second pole end **206b**, is to minimize or maximize a bend in said two skis **102**.

In one embodiment, said stressed height **1202** can be half an inch lower than said unstressed height **1204**. In one embodiment, said stressed height **1202** can comprise a height of said two skis **102** with a user thereon. Said unstressed height **1204** can comprise said roller ski adapter system **100** without a user thereon.

FIG. 13A illustrates an elevated front side view of an uncompressed configuration **1300a**.

FIG. 13B illustrates an elevated front side view of a compressed configuration **1300b**.

In one embodiment, said rear wheel assembly **310** can comprise said wheel diameter **1304**.

In one embodiment, said braking bar **312** can comprise said brake bar diameter **1302**.

In one embodiment, said wheel braking system **700** can comprise said uncompressed configuration **1300a** and said compressed configuration **1300b**.

In one embodiment, said brake bar diameter **1302** can comprise two inches and said wheel diameter **1304** can comprise 73 mm. In one embodiment, one objective of said roller ski adapter system **100** is to ensure said braking bar **312** can press into said rear wheel assembly **310** without accidentally getting caught between said rear wheel assem-

bly **310** and said lower brake compartment **508**. In one embodiment, if said brake bar diameter **1302** is too large, it can allow debris to prevent braking

The following sentences are included for completeness of this disclosure with reference to the claims.

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a two ski adapter sets, a two skis, a two poles and a two brake lines. Said two ski adapter sets comprises a front adapters and a rear adapters. Said two poles comprises a shaft, a brake lever assembly, a first end, a second end and a grip. Said brake lever assembly comprises said two brake lines, a lever and a cable guide. Said front adapters comprises a squeeze plate assembly, a truck and a wheels. Said rear adapters comprises a wheel braking system, a rear wheel assembly, a squeeze plate assembly, a truck and a wheels. Said wheel braking system comprises a braking bar, a brake line, a one or more spring assemblies, a splitter and a two brake lines. Said one or more spring assemblies comprises a first end, a second end, a first bracket, a second bracket and a one or more braking bar fasteners. A lower brake compartment comprises a first end, a second end, a brake line aperture and a one or more side portions. Said brake line aperture comprises a hole in said first end of said lower brake compartment, configured to allow a portion of said brake line to pass freely through said brake line aperture. Said braking bar is held in tension between said one or more spring assemblies and said brake line. Said one or more spring assemblies is attached to said second end of said lower brake compartment at one end and said braking bar at said second end. Said braking bar comprises a one or more rail slots. Said one or more rail slots are configured to slide along a portion of said one or more side portions. Said brake lever assembly is configured to pull a portion of said brake line, which in turn selectively pulls said braking bar into a portion of said rear wheel assembly. Said squeeze plate assembly comprises a padding. Said padding comprises a first padding and a second padding. Said padding comprises cork board configured to protect said two skis while attached. Said squeeze plate assembly selectively holds said rear adapters and front adapters to said two skis.

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a two ski adapter sets, a two skis, a two poles and a two brake lines. Said two ski adapter sets comprises a front adapters and a rear adapters. Said two poles comprises a shaft, a brake lever assembly, a first end, a second end and a grip. Said front adapters comprises a squeeze plate assembly, a truck and a wheels. A wheel braking system comprises a braking bar, a brake line, a one or more spring assemblies, a splitter and a two brake lines. Said braking bar is held in tension between said one or more spring assemblies and said brake line. Said brake lever assembly is configured to pull a portion of said brake line, which in turn selectively pulls said braking bar into a portion of said rear wheel assembly. A squeeze plate assembly comprises a padding.

Said squeeze plate assembly selectively holds said rear adapters and front adapters to said two skis.

Said padding comprises cork board configured to protect said two skis while attached.

Said padding comprises a first padding and a second padding.

A roller ski adapter system is disclosed. Said roller ski adapter system comprises a two ski adapter sets, a two skis, a two poles and a two brake lines. Said two ski adapter sets comprises a front adapters and a rear adapters. Said front adapters comprises a squeeze plate assembly, a truck and a

wheels. Said rear adapters comprises a wheel braking system, a rear wheel assembly, a squeeze plate assembly, a truck and a wheels. Said squeeze plate assembly comprises a padding. Said padding comprises a first padding and a second padding and are configured to protect said two skis with said squeeze plate assembly attached to said two skis. Said squeeze plate assembly selectively holds said rear adapters and front adapters to said two skis.

A one or more rail slots are configured to slide along a portion of said one or more side portions.

Said braking bar comprises a one or more rail slots.

Said one or more spring assemblies is attached to said second end of said lower brake compartment at one end and said braking bar at said second end.

A brake line aperture comprises a hole in said first end of said lower brake compartment, configured to allow a portion of said brake line to pass freely through said brake line aperture.

A lower brake compartment comprises a first end, a second end, a brake line aperture and a one or more side portions.

Said one or more spring assemblies comprises a first end, a second end, a first bracket, a second bracket and a one or more braking bar fasteners.

Said rear adapters comprises said wheel braking system, a rear wheel assembly, said squeeze plate assembly, a truck and a wheels.

Said brake lever assembly comprises said two brake lines, a lever and a cable guide.

A brake lever assembly comprises said two brake lines, a lever and a cable guide.

Said wheel braking system comprises a braking bar, a brake line, a one or more spring assemblies, a splitter and a two brake lines.

A one or more spring assemblies comprises a first end, a second end, a first bracket, a second bracket and a one or more braking bar fasteners.

A lower brake compartment comprises a first end, a second end, a brake line aperture and a one or more side portions.

A brake line aperture comprises a hole in said first end of said lower brake compartment, configured to allow a portion of said brake line to pass freely through said brake line aperture.

Said padding comprises cork board configured to protect said two skis while attached.

Various changes in the details of the illustrated operational methods are possible without departing from the scope of the following claims. Some embodiments may combine the activities described herein as being separate steps. Similarly, one or more of the described steps may be omitted, depending upon the specific operational environment the method is being implemented in. It is to be understood that the above description is intended to be illustrative, and not restrictive. For example, the above-described embodiments may be used in combination with each other. Many other embodiments will be apparent to those of skill in the art upon reviewing the above description. The scope of the invention should, therefore, be determined with reference to the appended claims, along with the full scope of equivalents to which such claims are entitled. In the appended claims, the terms “including” and “in which” are used as the plain-English equivalents of the respective terms “comprising” and “wherein.”

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The invention claimed is:

1. A roller ski adapter system, wherein:

said roller ski adapter system comprises two ski adapter sets, two skis, two poles each having a brake lever assembly, and two brake lines each attached between said brake lever assembly and a wheel braking system; 5  
 said two ski adapter sets each comprise a front adapter and a rear adapter;  
 said two poles each comprise a shaft, said brake lever assembly, a first pole end, a second pole end and a grip; 10  
 said brake lever assembly comprises, a lever and a cable guide;  
 each of said front adapters comprise a squeeze plate assembly, a truck and a front wheel assembly;  
 each of said rear adapter comprises said wheel braking system, a rear wheel assembly, a squeeze plate assembly, a truck, a lower brake compartment, and said rear wheel assembly; 15  
 said wheel braking system comprises a braking bar one or more spring assemblies, and a splitter; 20  
 said one or more spring assemblies each comprise a first spring end, a second spring end, a first bracket, and a second bracket;  
 said lower brake compartment comprises a first brake compartment end, a second brake compartment end, a brake line aperture and a one or more side portions;  
 said brake line aperture comprises a hole in said first brake compartment end of said lower brake compartment, configured to allow a portion of said brake line to pass freely through said brake line aperture; 25  
 said braking bar is held in tension between said one or more spring assemblies and said brake line;  
 said one or more spring assemblies are each attached to said second brake compartment end of said lower brake compartment at said first spring end and said braking bar at said second spring end; 35  
 said braking bar comprises a one or more rail slots;  
 said one or more rail slots are configured to slide along a portion of said one or more side portions;  
 said brake lever assembly is configured to pull a portion of said brake line, which in turn selectively pulls said braking bar into a portion of said rear wheel assembly; 40  
 said squeeze plate assembly comprises a padding;  
 said padding comprises a first padding and a second padding; 45  
 said padding comprises cork board configured to protect said two skis while attached; and  
 said squeeze plate assembly selectively holds said rear adapters and front adapters to said two skis. 50

2. A roller ski adapter system, wherein: 55  
 said roller ski adapter system comprises two ski adapter sets, two skis, two poles each having a brake lever assembly, and two brake lines each attached between said brake lever assembly and a wheel braking system;  
 said two ski adapter sets each comprise a front adapter and a rear adapter;  
 said two poles each comprise a shaft, said brake lever assembly, a first pole end, a second pole end and a grip;  
 each of said front adapters comprises a front squeeze plate assembly, a front truck and a front wheel assembly;

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each of said rear adapters comprises said wheel braking system, a rear wheel assembly, a rear squeeze plate assembly, and a rear truck;

said wheel braking system comprises a braking bar, a one or more spring assemblies, and a splitter;

said braking bar is held in tension between said one or more spring assemblies and said brake line;

said brake lever assembly is configured to pull a portion of said brake line, which in turn selectively pulls said braking bar into a portion of said rear wheel assembly; and

said rear squeeze plate assembly and said front squeeze plate assembly each comprise a padding configured to protect said two skis with said front adapter and said rear adapter attached. 15

3. The roller ski adapter system of claim 2 wherein:

said rear squeeze plate assembly and said front squeeze plate assembly selectively hold said rear adapters and front adapters to said two skis.

4. The roller ski adapter system of claim 3 wherein:

said padding comprises cork board configured to protect said two skis while attached.

5. The roller ski adapter system of claim 2 wherein:

said padding comprises a first padding and a second padding; and

said first padding and said second padding are pressed into a top side and a bottom side of said two skis.

6. The roller ski adapter system of claim 2 wherein:

each of said rear adapter further comprises a lower brake compartment;

said lower brake compartment comprises a first brake compartment end, a second brake compartment end, a brake line aperture and a one or more side portions;  
 said braking bar comprises a one or more rail slots; and  
 said one or more rail slots are configured to slide along a portion of said one or more side portions.

7. The roller ski adapter system of claim 2 wherein:

said lower brake compartment comprises a first brake compartment end and a second brake compartment end; and

said one or more spring assemblies are attached to said second brake compartment end of a lower brake compartment at said first brake compartment end and said braking bar at said second brake compartment end.

8. The roller ski adapter system of claim 7 wherein:

a brake line aperture comprises a hole in said first brake compartment end of said lower brake compartment, configured to allow a portion of said brake line to pass freely through said brake line aperture.

9. The roller ski adapter system of claim 2 wherein:

a lower brake compartment comprises a first brake compartment end, a second brake compartment end, a brake line aperture and a one or more side portions; and  
 said one or more spring assemblies each comprise a first spring end, a second spring end, a first bracket, and a second bracket.

10. The roller ski adapter system of claim 2 wherein:

each of said brake lever assembly comprises said two brake lines, a lever and a cable guide.

\* \* \* \* \*