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Inventor(s)

Mendez; Peter Sebastian

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### ICE TRACTION GLOVE

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#### Abstract

An ice traction device can include a glove having at least a palm portion; a first finger portion attached to the palm portion; and a thumb portion attached to the palm portion; a plurality of metal rivets; and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet; a second plate attached to the first finger portion by at least a second metal rivet; and a third plate attached to the thumb portion by at least a third metal rivet; wherein: the first metal rivet has a first tapered end portion positioned outside the glove; the second metal rivet has a second tapered end portion positioned outside the glove; and the third metal rivet has a third tapered end portion positioned outside the glove.

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**Inventors:** Mendez; Peter Sebastian (Pembroke Pines, FL)

**Applicant:** Mendez; Peter Sebastian (Pembroke Pines, FL)

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#### Background/Summary

## TECHNICAL FIELD

[0001] The embodiments generally relate to the field of ice traction gloves.

## BACKGROUND

[0002] Ice skaters sometimes place their hands on the ice while ice skating to perform acrobatic movements. Without any gloves, the hands of an ice skater have little to no traction on ice.

[0003] There is a need for an ice traction device that can be worn on at least one hand of user such as an ice skater, so that the user's hand has traction on ice, which can help the user perform acrobatic movements. Additionally, if a user accidentally falls, the user has traction to better control their fall.

## SUMMARY

[0004] This summary is provided to introduce a variety of concepts in a simplified form that is further disclosed in the detailed description of the embodiments. This summary is not intended to identify key or essential inventive concepts of the claimed subject matter, nor is it intended for determining the scope of the claimed subject matter.

[0005] In general, the disclosed ice traction device can include a glove having at least a palm portion; a first finger portion attached to the palm portion; and a thumb portion attached to the palm portion; a plurality of metal rivets; and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet; a second plate attached to the first finger portion by at least a second metal rivet; and a third plate attached to the thumb portion by at least a third metal rivet; wherein: the first metal rivet has a first tapered end portion positioned outside the glove; the second metal rivet has a second tapered end portion positioned outside the glove; and the third metal rivet has a third tapered end portion positioned outside the glove.

[0006] Other illustrative variations within the scope of the invention will become apparent from the detailed description provided hereinafter. The detailed description and enumerated variations, while disclosing optional variations, are intended for purposes of illustration only and are not intended to limit the scope of the invention.

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## Description

### BRIEF DESCRIPTION OF THE DRAWINGS

[0007] A more complete understanding of the embodiments, and the attendant advantages and features thereof, will be more readily understood by references to the following detailed description when considered in conjunction with the accompanying drawings wherein:

[0008] FIG. 1 illustrates an illustrative depiction of an ice traction device, according to some embodiments disclosed herein;

[0009] FIG. 2 illustrates an illustrative depiction of a cross-sectional view of the glove illustrated in FIG. 1, taken along line 2-2 in FIG. 1, according to some embodiments disclosed herein;

[0010] FIG. 3A illustrates an illustrative depiction of a plate attached to a glove by at least a metal rivet of an ice traction device, according to some embodiments disclosed herein;

[0011] FIG. 3B illustrates an illustrative depiction of a plate attached to a glove by at least a metal rivet of an ice traction device, after an end portion of the metal rivet is formed, according to some embodiments disclosed herein;

[0012] FIG. 3C illustrates an illustrative depiction of a plate attached to a glove by at least a metal rivet of an ice traction device, after an end portion of the metal rivet is formed, according to some embodiments disclosed herein;

[0013] FIG. 4 illustrates an illustrative depiction of a back of a glove of an ice traction device, according to some embodiments disclosed herein; and

[0014] FIG. 5 illustrates an illustrative depiction of a user's hand, according to some embodiments

disclosed herein.

[0015] The drawings are not necessarily to scale, and certain features and certain views of the drawings may be shown exaggerated in scale or in schematic in the interest of clarity and conciseness.

#### DETAILED DESCRIPTION

[0016] The specific details of the single embodiment or variety of embodiments described herein are to the described product or methods of use. Any specific details of the embodiments are used for demonstration purposes only and no unnecessary limitations or inferences are to be understood from there.

[0017] It is noted that the embodiments reside primarily in combinations of components and procedures related to the products. Accordingly, the product and components have been represented where appropriate by conventional symbols in the drawings, showing only those specific details that are pertinent to understanding the embodiments of the present disclosure so as not to obscure the disclosure with details that will be readily apparent to those of ordinary skill in the art having the benefit of the description herein.

[0018] In general, some embodiments described herein relate to an ice traction device that can be worn on at least one hand of a user. The ice traction device can include a glove having at least a palm portion; a first finger portion attached to the palm portion; and a thumb portion attached to the palm portion. The ice traction device can include a plurality of metal rivets and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet; a second plate attached to the first finger portion by at least a second metal rivet; and a third plate attached to the thumb portion by at least a third metal rivet. The first metal rivet can have a first tapered end portion positioned outside the glove. The second metal rivet can have a second tapered end portion positioned outside the glove. The third metal rivet has a third tapered end portion positioned outside the glove.

[0019] The first tapered end portion of the first metal rivet, the second tapered end portion of the second metal rivet, the third tapered end portion of the third metal rivet, and any additional tapered end portions of any additional rivets, can be constructed and arranged to have traction on ice or icy surfaces.

[0020] Any plate of the plurality of plates can be made primarily of metal. In some embodiments, the plurality of plates can be made primarily of steel (e.g., stainless steel). The plurality of metal rivets can be made primarily of metal. In some embodiments, the plurality of metal rivets can be made primarily of steel (e.g., stainless steel).

[0021] Any portion of the glove can be made primarily of fabric, leather, or a combination thereof. Any portion of the glove can comprise polyester, nylon, cotton, polyurethane, microfiber, leather, or any combination thereof. Any portion of the glove can be attached to any other portion of the glove by any suitable method, such as, for example, stitching, adhering, or a combination thereof.

[0022] Referring to FIG. 1, the ice traction device **10** can include at least one glove **12**. In some embodiments, the glove **12** can include a palm portion **20** that is constructed and arranged to cover at least a palm (e.g., **90** in FIG. 5) of a user. In some embodiments, the glove **12** can include a first finger portion **21** attached to the palm portion **20**, the first finger portion **21** being constructed and arranged to cover at least a first finger (e.g., **91** in FIG. 5) of the user. In some embodiments, the glove **12** can include a thumb portion **25** attached to the palm portion **20**, the thumb portion **25** being constructed and arranged to cover at least a thumb (e.g., **95** in FIG. 5) of the user.

[0023] In some embodiments, the ice traction device **10** can include a plurality of metal rivets **30**. One or more plates **40** can be attached to the glove **12**, the one or more plates **40** including a first plate **41** attached to the palm portion **20** by at least a first metal rivet **31** of the plurality of metal rivets **30**. A second plate **42** can be attached to the first finger portion **21** by at least a second metal rivet **32** of the plurality of metal rivets. A third plate **43** can be attached to the thumb portion **25** by at least a third metal rivet **33** of the plurality of metal rivets **30**. In some embodiments, the one or

more plates **40** can be positioned on an exterior surface **26** of the glove **12**. In some embodiments, any suitable number of metal rivets **30** can be used to attach any plate of the one or more plates **40** to the glove **12**.

[0024] Referring to FIG. 2, an inside of the glove **12** of the ice traction device **10** is shown. The first metal rivet **31** can have a first head portion **51** positioned inside the glove **12**. The second metal rivet **32** can have a second head portion **52** positioned inside the glove **12**. The third metal rivet **33** can have a third head portion **53** positioned inside the glove **12**. In some embodiments, any other metal rivet can have a corresponding head portion positioned inside the glove **12**. In some embodiments, washers **28** can be positioned between the glove **12** and head portions of respective metal rivets.

[0025] Each washer **28** can be positioned on an interior surface **27** of the glove **12**. However, in other embodiments, the washers **28** can be omitted. In some embodiments, the head portion of each metal rivet of the plurality of metal rivets **30** can be positioned on the interior surface **27** of the glove **12**.

[0026] Referring to FIG. 3A, a metal rivet **31'** of the plurality of metal rivets **30** can have a shank portion **61** extending through a first hole **62** in the glove **12** and a second hole **63** in a plate **41'** of the one or more plates **40**. In some embodiments, the shank portion **61** can extend through a third hole **64** in a washer **28**. A body portion **80** of the metal rivet **31'** can be positioned on the plate **41'**. In some embodiments, the plate **41'** can have a thickness **107** of approximately 1 mm.

[0027] Referring to FIG. 3B, the metal rivet **31'** can have a head portion **51'** positioned inside **102** the glove **12**. The head portion **51'** can have a first width **71** that is larger than a second width **72** of the first hole **62** in the glove **12**. In some embodiments, the metal rivet **31'** can have an end portion **82** positioned outside **104** the glove **12**. The end portion **82** can have a fourth width **74** that is larger than a third width **73** of the second hole **63** in the plate **41'**. The fourth width **74** of the end portion **82** can be larger than the second width **72** of the first hole **62** in the glove.

[0028] In some embodiments, the end portion **82** can be tapered. In some embodiments, the end portion **82** of the metal rivet **31'** can be formed by cutting off at least a part (e.g., **81** in FIG. 3A) of the body portion (e.g., **80** in FIG. 3A) from the metal rivet **31'**. In some embodiments, at least the part **81** of the body portion **80** can be cut off by using any suitable tool, such as, for example, metal cutting pliers, a bolt cutter, etc., or any combination thereof.

[0029] The end portion **82** can be positioned on the plate **41'**. In some embodiments, the end portions of the plurality of rivets **30** can be positioned on the one or more plates **40**.

[0030] In some embodiments, the end portion **82** of the metal rivet **31'** can include a sharp edge **84**. In some embodiments, the end portion **82** can be tapered to the sharp edge **84**. Referring to FIG. 3C, the end portion **82** can include a first corner **86** and a second corner **88**. In some embodiments, the first **86** and second **88** corners can be sharp. The sharp edge **84** can extend between the first corner **86** and the second corner **88**.

[0031] In some embodiments, the glove **12** can include a liner **106** positioned inside the glove **12**, wherein the liner **106** is constructed and arranged to cover at least the head portion **51'** of the metal rivet **31'** and/or the washer **28**. In some embodiments, the liner **106** is constructed and arranged to cover the head portion of any metal rivet and/or any washer. In some embodiments, the liner **106** can be cut resistant. The liner **106** can be made primarily of cut resistant fabric to protect a user's hands from any sharp edges and corners of the plurality of metal rivets **30**.

[0032] In some embodiments, the description of the metal rivet **31'** can be applied to any metal rivet of the plurality of metal rivets **30**. Similarly, the description of the plate **41'** can be applied to any plate of the one or more plates **40**.

[0033] Referring to FIG. 4, a back region **110** of the glove **12** can include padding **112** to provide protection for a user's hand.

[0034] Referring to FIG. 1, the glove **12** can include a second finger portion **22** attached to the palm portion **20**, the second finger portion **22** being constructed and arranged to cover at least a

second finger (e.g., **92** in FIG. 5) of the user. In some embodiments, the glove **12** can include a third finger portion **23** attached to the palm portion **20**, the third finger portion **23** being constructed and arranged to cover at least a third finger (e.g., **93** in FIG. 5) of the user. In some embodiments, the glove **12** can include a fourth finger portion **24** attached to the palm portion **20**, the fourth finger portion **24** being constructed and arranged to cover at least a fourth finger (e.g., **94** in FIG. 5) of the user. In some embodiments, any suitable number of plates can be attached to any finger portion (e.g., **21**, **22**, **23**, **24**), the palm portion **20**, the thumb portion **25**, or any combination thereof. Any suitable number of metal rivets of the plurality of metal rivets **30** can be attached to any plate of the one or more plates **40**. In some embodiments, the one or more plates **40** can have different shapes and sizes. In some embodiments, the plurality of metal rivets **30** can have different shapes and sizes.

[0035] In some embodiments, the ice traction device **10** can include at least two gloves **12**, wherein a first glove **12** is left-handed, and a second glove **12** is right-handed.

[0036] The following description of variants is only illustrative of components, elements, acts, products, and methods considered to be within the scope of the invention and are not in any way intended to limit such scope by what is specifically disclosed or not expressly set forth. The components, elements, acts, products, and methods as described herein may be combined and rearranged other than as expressly described herein and are still considered to be within the scope of the invention.

[0037] According to variation 1, an ice traction device can comprise a glove that includes: a palm portion that is constructed and arranged to cover at least a palm of a user; a first finger portion attached to the palm portion, the first finger portion being constructed and arranged to cover at least a first finger of the user; and a thumb portion attached to the palm portion, the thumb portion being constructed and arranged to cover at least a thumb of the user; a plurality of metal rivets; and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet of the plurality of metal rivets; a second plate attached to the first finger portion by at least a second metal rivet of the plurality of metal rivets; and a third plate attached to the thumb portion by at least a third metal rivet of the plurality of metal rivets; wherein: the first metal rivet has a first head portion positioned inside the glove; the first metal rivet has a first shank portion extending through a first hole in the glove and a second hole in the first plate; the first metal rivet has a first end portion positioned outside the glove, the first end portion being tapered; the second metal rivet has a second head portion positioned inside the glove; the second metal rivet has a second shank portion extending through a third hole in the glove and a fourth hole in the second plate; the second metal rivet has a second end portion positioned outside the glove, the second end portion being tapered; the third metal rivet has a third head portion positioned inside the glove; the third metal rivet has a third shank portion extending through a fifth hole in the glove and a sixth hole in the third plate; and the third metal rivet has a third end portion positioned outside the glove, the third end portion being tapered.

[0038] Variation 2 can include the ice traction device of variation 1, wherein: the first end portion of the first metal rivet includes a first sharp edge; the second end portion of the second metal rivet includes a second sharp edge; the third end portion of the third metal rivet includes a third sharp edge.

[0039] Variation 3 can include the ice traction device of variation 2, wherein: the first end portion of the first metal rivet was formed by cutting off at least a first part of a first body portion from the first metal rivet; the second end portion of the second metal rivet was formed by cutting off at least a second part of a second body portion from the second metal rivet; the third end portion of the third metal rivet was formed by cutting off at least a third part of a third body portion from the third metal rivet.

[0040] Variation 4 can include the ice traction device of variation 1, wherein the glove comprises a liner positioned inside the glove, wherein the liner is constructed and arranged to cover at least: the

first head portion of the first metal rivet; the second head portion of the second metal rivet; and the third head portion of the third metal rivet.

[0041] Variation 5 can include the ice traction device of variation 1, wherein the plurality of metal plates have a thickness of approximately 1 mm.

[0042] Variation 6 can include the ice traction device of variation 1, wherein the plurality of rivets are made primarily of steel.

[0043] Variation 7 can include the ice traction device of variation 1, further comprising a plurality of washers positioned inside the glove, wherein: a first washer of the plurality of washers is positioned between the glove and the first head portion of the first metal rivet; a second washer of the plurality of washers is positioned between the glove and the second head portion of the second metal rivet; a third washer of the plurality of washers is positioned between the glove and the third head portion of the third metal rivet.

[0044] According to variation 8, an ice traction device can comprise a glove that includes: a palm portion that is constructed and arranged to cover at least a palm of a user; and a first finger portion attached to the palm portion, the first finger portion being constructed and arranged to cover at least a first finger of the user; a plurality of metal rivets; and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet of the plurality of metal rivets; and a second plate attached to the first finger portion by at least a second metal rivet of the plurality of metal rivets; wherein: the first metal rivet has a first head portion positioned inside the glove; the first metal rivet has a first shank portion extending through a first hole in the glove and a second hole in the first plate; the first metal rivet has a first end portion positioned outside the glove, the first end portion being tapered; the second metal rivet has a second head portion positioned inside the glove; the second metal rivet has a second shank portion extending through a third hole in the glove and a fourth hole in the second plate; and the second metal rivet has a second end portion positioned outside the glove, the second end portion being tapered.

[0045] Variation 9 can include the ice traction device of variation 8, wherein: the first end portion of the first metal rivet includes a first sharp edge; and the second end portion of the second metal rivet includes a second sharp edge.

[0046] Variation 10 can include the ice traction device of variation 9, wherein: the first end portion of the first metal rivet was formed by cutting off at least a first part of a first body portion from the first metal rivet; and the second end portion of the second metal rivet was formed by cutting off at least a second part of a second body portion from the second metal rivet.

[0047] Variation 11 can include the ice traction device of variation 8, wherein the glove comprises a liner positioned inside the glove, wherein the liner is constructed and arranged to cover at least: the first head portion of the first metal rivet; and the second head portion of the second metal rivet.

[0048] Variation 12 can include the ice traction device of variation 8, wherein the plurality of metal plates have a thickness of approximately 1 mm.

[0049] Variation 13 can include the ice traction device of variation 8, wherein the plurality of rivets are made primarily of steel.

[0050] Variation 14 can include the ice traction device of variation 8, further comprising a plurality of washers positioned inside the glove, wherein: a first washer of the plurality of washers is positioned between the glove and the first head portion of the first metal rivet; and a second washer of the plurality of washers is positioned between the glove and the second head portion of the second metal rivet.

[0051] According to variation 15, an ice traction device can comprise a glove that includes a palm portion that is constructed and arranged to cover at least a palm of a user; a plurality of metal rivets; and one or more plates attached to the glove, the one or more plates including: a first plate attached to the palm portion by at least a first metal rivet of the plurality of metal rivets; wherein: the first metal rivet has a first head portion positioned inside the glove; the first metal rivet has a

first shank portion extending through a first hole in the glove and a second hole in the first plate; and the first metal rivet has a first end portion positioned outside the glove, the first end portion being tapered.

[0052] Variation 16 can include the ice traction device of variation 15, wherein: the first end portion of the first metal rivet includes a first sharp edge.

[0053] Variation 17 can include the ice traction device of variation 15, wherein: the first end portion of the first metal rivet was formed by cutting off at least a first part of a first body portion from the first metal rivet.

[0054] Variation 18 can include the ice traction device of variation 15, wherein the glove comprises a liner positioned inside the glove, wherein the liner is constructed and arranged to cover at least: the first head portion of the first metal rivet.

[0055] Variation 19 can include the ice traction device of variation 15, wherein the one or more metal plates have a thickness of approximately 1 mm.

[0056] Variation 20 can include the ice traction device of variation 15, wherein the plurality of rivets are made primarily of steel.

[0057] Many different embodiments have been disclosed herein, in connection with the above description and the drawings. It will be understood that it would be unduly repetitious and obfuscating to describe and illustrate every combination and subcombination of these embodiments. Accordingly, all embodiments can be combined in any way and/or combination, and the present specification, including the drawings, shall be construed to constitute a complete written description of all combinations and subcombinations of the embodiments described herein, and of the manner and process of making and using them, and shall support claims to any such combination or subcombination.

[0058] An equivalent substitution of two or more elements can be made for anyone of the elements in the claims below or that a single element can be substituted for two or more elements in a claim. Although elements can be described above as acting in certain combinations, and even initially claimed as such, it is to be expressly understood that one or more elements from a claimed combination can, in some cases, be excised from the combination and that the claimed combination can be directed to a subcombination or variation of a subcombination.

[0059] It will be appreciated by persons skilled in the art that the present embodiment is not limited to what has been particularly shown and described hereinabove. A variety of modifications and variations are possible considering the above teachings without departing from the following claims.

## Claims

1. An ice traction device, comprising: a glove that includes: a palm portion that is constructed and arranged to cover at least a palm of a user; a first finger portion attached to the palm portion, the first finger portion being constructed and arranged to cover at least a first finger of the user; and a thumb portion attached to the palm portion, the thumb portion being constructed and arranged to cover at least a thumb of the user; a plurality of metal rivets; and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet of the plurality of metal rivets; a second plate attached to the first finger portion by at least a second metal rivet of the plurality of metal rivets; and a third plate attached to the thumb portion by at least a third metal rivet of the plurality of metal rivets; wherein: the first metal rivet has a first head portion positioned inside the glove, the first metal rivet has a first shank portion extending through a first hole in the glove and a second hole in the first plate; the first metal rivet has a first end portion positioned outside the glove, the first end portion being tapered and formed by cutting off at least a first part of a first body portion from the first metal rivet, the first end portion including a first sharp edge; the second metal rivet has a second head portion positioned

inside the glove; the second metal rivet has a second shank portion extending through a third hole in the glove and a fourth hole in the second plate; the second metal rivet has a second end portion positioned outside the glove, the second end portion being tapered and formed by cutting off at least a second part of a second body portion from the second metal rivet, the second end portion including a second sharp edge; the third metal rivet has a third head portion positioned inside the glove; the third metal rivet has a third shank portion extending through a fifth hole in the glove and a sixth hole in the third plate; and the third metal rivet has a third end portion positioned outside the glove, the third end portion being tapered and formed by cutting off at least a third part of a third body portion from the third metal rivet, the third end portion including a third sharp edge; and a plurality of washers positioned inside the glove, wherein: a first washer of the plurality of washers is positioned between the glove and the first head portion of the first metal rivet; a second washer of the plurality of washers is positioned between the glove and the second head portion of the second metal rivet; a third washer of the plurality of washers is positioned between the glove and the third head portion of the third metal rivet.

2. (canceled)

3. The ice traction device of claim 2, wherein: the first end portion of the first metal rivet was formed by cutting off at least a first part of a first body portion from the first metal rivet; the second end portion of the second metal rivet was formed by cutting off at least a second part of a second body portion from the second metal rivet; the third end portion of the third metal rivet was formed by cutting off at least a third part of a third body portion from the third metal rivet.

4. The ice traction device of claim 1, wherein the glove comprises a liner positioned inside the glove, wherein the liner is constructed and arranged to cover at least the first head portion of the first metal rivet; the second head portion of the second metal rivet; and the third head portion of the third metal rivet.

5. The ice traction device of claim 1, wherein the plurality of metal plates have a thickness of approximately 1 mm.

6. The ice traction device of claim 1, wherein the plurality of rivets are made primarily of steel.

7. (canceled)

8. An ice traction device, comprising: a glove that includes: a palm portion that is constructed and arranged to cover at least a palm of a user; and a first finger portion attached to the palm portion, the first finger portion being constructed and arranged to cover at least a first finger of the user; a plurality of metal rivets; and a plurality of plates attached to the glove, the plurality of plates including: a first plate attached to the palm portion by at least a first metal rivet of the plurality of metal rivets; and a second plate attached to the first finger portion by at least a second metal rivet of the plurality of metal rivets; wherein: the first metal rivet has a first head portion positioned inside the glove; the first metal rivet has a first shank portion extending through a first hole in the glove and a second hole in the first plate; the first metal rivet has a first end portion positioned outside the glove, the first end portion being tapered and formed by cutting off at least a first part of a first body portion from the first metal rivet, the first end portion including a first sharp edge; the second metal rivet has a second head portion positioned inside the glove; the second metal rivet has a second shank portion extending through a third hole in the glove and a fourth hole in the second plate; and the second metal rivet has a second end portion positioned outside the glove, the second end portion being tapered and formed by cutting off at least a second part of a second body portion from the second metal rivet, the second end portion including a second sharp edge; and a plurality of washers positioned inside the glove, wherein: a first washer of the plurality of washers is positioned between the glove and the first head portion of the first metal rivet; and a second washer of the plurality of washers is positioned between the glove and the second head portion of the second metal rivet.

9. The ice traction device of claim 8, wherein: the first end portion of the first metal rivet includes a first sharp edge; and the second end portion of the second metal rivet includes a second sharp edge.



- 10.** The ice traction device of claim 9, wherein: the first end portion of the first metal rivet was formed by cutting off at least a first part of a first body portion from the first metal rivet; and the second end portion of the second metal rivet was formed by cutting off at least a second part of a second body portion from the second metal rivet.
- 11.** The ice traction device of claim 8, wherein the glove comprises a liner positioned inside the glove, wherein the liner is constructed and arranged to cover at least: the first head portion of the first metal rivet; and the second head portion of the second metal rivet.
- 12.** The ice traction device of claim 8, wherein the plurality of metal plates have a thickness of approximately 1 mm.
- 13.** The ice traction device of claim 8, wherein the plurality of rivets are made primarily of steel.
- 14.** (canceled)
- 15.** An ice traction device, comprising: a glove that includes a palm portion that is constructed and arranged to cover at least a palm of a user; a plurality of metal rivets; and one or more plates attached to the glove, the one or more plates including: a first plate attached to the palm portion by at least a first metal rivet of the plurality of metal rivets; wherein: the first metal rivet has a first head portion positioned inside the glove; the first metal rivet has a first shank portion extending through a first hole in the glove and a second hole in the first plate; and the first metal rivet has a first end portion positioned outside the glove, the first end portion being tapered and formed by cutting off at least a first part of a first body portion from the first metal rivet, the first end portion including a first sharp edge; and a plurality of washers positioned inside the glove, wherein: a first washer of the plurality of washers is positioned between the glove and the first head portion of the first metal rivet; and a second washer of the plurality of washers is positioned between the glove and the second head portion of the second metal rivet.
- 16.** The ice traction device of claim 15, wherein: the first end portion of the first metal rivet includes a first sharp edge.
- 17.** The ice traction device of claim 15, wherein: the first end portion of the first metal rivet was formed by cutting off at least a first part of a first body portion from the first metal rivet.
- 18.** The ice traction device of claim 15, wherein the glove comprises a liner positioned inside the glove, wherein the liner is constructed and arranged to cover at least. the first head portion of the first metal rivet.
- 19.** The ice traction device of claim 15, wherein the one or more metal plates have a thickness of approximately 1 mm.
- 20.** The ice traction device of claim 15, wherein the plurality of rivets are made primarily of steel.
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