

SUPPORT FOR TREE

BACKGROUND

Field

5 **[0001]** The present device relates to a support for a tree, and more particularly, to a support for a tree, which has a shape designed in consideration of a growth of a tree, such that the support may stably support the tree even though the tree grows and increases in thickness.

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Description of the Related Art

[0002] In general, supports are installed on street trees, garden trees, and orchard trees to keep the trees growing straight and upright and to prevent the trees from being felled
15 or uprooted by wind and rain.

[0003] Because the support is mainly made of wood and configured to support the tree by fixing an upper end portion of the support by weaving an iron wire, there is a problem in that it is inconvenient to perform a process of installing the support, an
20 external appearance of the support is not good, and the upper end of the support rots over time. Further, a state of the support cannot be adjusted even though the tree grows and increases in thickness, which degrades the growth of the tree.

[0004] In order to solve the above-mentioned problems, the
25 present specification discloses a support for a tree that may be conveniently installed and have a shape designed in consideration of a thickness of the tree that increases in

accordance with the growth of the tree, thereby stably supporting the tree.

[0005] [Document in Related Art]

[0006] Korean Patent Application Laid-Open No. 10-2022-0041450

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SUMMARY

[0007] The present device relates to a support for a tree, and more particularly, to a support for a tree, which has a shape designed in consideration of a growth of a tree, such that the support may stably support the tree even though the tree grows and increases in thickness.

[0008] An embodiment of the present device provides a support for a tree, the support including a first fastening member extending along a periphery of a stem of a tree and including a plurality of first peripheral portions each having one surface disposed to be in contact with a peripheral surface of the stem of the tree, and a first protruding portion disposed between the plurality of first peripheral portions and extending and protruding in a direction in which the first protruding portion is spaced apart from the stem of the tree from the first peripheral portion, and a second fastening member extending along the periphery of the stem of the tree and including a plurality of second peripheral portions each having one surface disposed to be in contact with the peripheral surface of the stem of the tree, and a second protruding portion disposed between the plurality of second peripheral portions and extending and protruding in a direction in which the second

protruding portion is spaced apart from the stem of the tree from the second peripheral portion, in which one side of the first fastening member is connected to one side of the second fastening member, in which the other side of the first fastening member is connected and coupled to the other side of the second fastening member, in which the stem of the tree is positioned in a hole defined between the first fastening member and the second fastening member when the first fastening member and the second fastening member are coupled, and in which the tree is supported as the peripheral surface of the tree comes into contact with an inner surface of the first peripheral portion of the first fastening member and an inner surface of the second peripheral portion of the second fastening member.

[0009] A width of each of holes defined between the first protruding portion and the stem of the tree and between the second protruding portion and the stem of the tree may decrease in a direction away from the stem of the tree.

[0010] The support for a tree according to the embodiment of the present device may further include: a connection member having one side coupled to the first peripheral portion provided at one side of the first fastening member, and the other side coupled to the second peripheral portion provided at one side of the second fastening member, the connection member being configured to connect the first fastening member and the second fastening member, in which a plurality of holes is formed at an end of the second peripheral portion provided at the other side of the second fastening member, and in which the first peripheral

portion, which is provided at the other side of the first fastening member, is inserted into any one of the plurality of holes, such that the other side of the first fastening member and the other side of the second fastening member are connected.

5 **[0011]** The connection member may include a first portion, and a second portion perpendicularly extending from the first portion, and an end of the first peripheral portion, which is provided at one side of the first fastening member, may perpendicularly extend in the direction away from the stem of
10 the tree and overlap the second portion, such that the connection member and the first peripheral portion are coupled to each other while being fixed by a fixing member.

[0012] The two fastening members of the support for a tree of the present device may surround the stem of the tree to support
15 the tree. One side of the first fastening member and one side of the second fastening member may be connected to each other by the connection member having a '┐' shape at one side in order to increase a coupling force to the tree. The other side of the first fastening member and the other side of the second fastening
20 member may be connected to each other by inserting the first peripheral portion into the hole formed in the second peripheral portion, such that the first fastening member and the second fastening member may be easily detached.

[0013] Further, because the first and second protruding
25 portions are formed such that the width of the hole defined by the tree decreases outward, the width of the hole gradually increases when the tree is grown and thickened, such that the

support for a tree may strongly support the tree, and the support for a tree may be prevented from being loosened or damaged by the growth of the tree.

BRIEF DESCRIPTION OF THE DRAWINGS

[0014] The above and other aspects, features and other advantages of the present device will be more clearly understood from the following detailed description taken in conjunction with the accompanying drawings, in which:

FIG. 1 is a perspective view of a support for a tree according to an embodiment of the present device;

FIG. 2 is a view specifically illustrating a state in which first and second fastening members are connected by a fixing member according to the embodiment of the present device; and

FIG. 3 is an enlarged view illustrating a first protruding portion according to the embodiment of the present device.

DETAILED DESCRIPTION OF THE EMBODIMENT

[0015] Hereinafter, exemplary embodiments of the present device will be described in detail with reference to the accompanying drawings so that those with ordinary skill in the art to which the present device pertains may easily carry out the exemplary embodiments. However, the present device may be implemented in various different ways and is not limited to the embodiments described herein. Further, a part irrelevant to the description will be omitted in the drawings in order to clearly describe the present device, and similar constituent elements will be

designated by similar reference numerals throughout the specification.

[0016] Throughout the present specification, when one constituent element is referred to as being "connected to" another constituent element, one constituent element can be "directly connected to" the other constituent element, and one constituent element can also be "electrically connected to" the other element with other elements therebetween. In addition, unless explicitly described to the contrary, the word "comprise/include" and variations such as "comprises/includes" or "comprising/including" will be understood to imply the inclusion of stated elements, not the exclusion of any other elements. Hereinafter, the present device will be described in detail with reference to the accompanying drawings.

[0017] FIG. 1 is a perspective view of a support 1000 for a tree according to an embodiment of the present device, FIG. 2 is a view specifically illustrating a state in which a first fastening member 101 and a second fastening member 102 are connected by a fixing member 104 according to the embodiment of the present device, FIG. 3 is an enlarged view illustrating a first protruding portion 112 according to the embodiment of the present device.

[0018] With reference to FIGS. 1, the support 1000 for a tree according to the embodiment of the present device may include the first fastening member 101, the second fastening member 102, and a connection member 103.

[0019] The first fastening member 101 may include a first

peripheral portion 111 and the first protruding portion 112.

[0020] The first peripheral portion 111 may extend along a periphery of a stem of a tree and have one surface configured to be in contact with a peripheral surface of the stem of the tree. The first peripheral portion 111 may be provided as a plurality of first peripheral portions 111. As illustrated in FIG. 1, three first peripheral portions 111 may be provided. However, the number of first peripheral portions 111 is not limited. The first peripheral portion 111 may be made of a metallic material. For example, the first peripheral portion 111 may be made of iron.

[0021] The first protruding portion 112 may extend and protrude in a direction in which the first protruding portion 112 is spaced apart from the stem of the tree from the first peripheral portion 111. As illustrated in FIG. 1, three first peripheral portions 111 may be provided, and two first protruding portions 112 may be provided to be interposed between the first peripheral portions 111. However, the number of first protruding portions 112 may vary depending on the number of first peripheral portions 111. A second peripheral portion 121 may be made of a metallic material. For example, the first peripheral portion 111 may be made of iron.

[0022] The second fastening member 102 may include the second peripheral portion 121 and a second protruding portion 122.

[0023] The second peripheral portion 121 may extend along the periphery of the stem of the tree and have one surface configured to be in contact with the peripheral surface of the stem of the

tree. The second peripheral portion 121 may be provided as a plurality of second peripheral portions 121. As illustrated in FIG. 1, three second peripheral portions 121 may be provided. However, the number of second peripheral portions 121 is not limited.

[0024] The second protruding portion 122 may extend and protrude in a direction in which the second protruding portion 122 is spaced apart from the stem of the tree from the second peripheral portion 121. As illustrated in FIG. 1, three second peripheral portions 121 may be provided, and two second protruding portions 122 may be provided to be interposed between the second peripheral portions 121. However, the number of second protruding portions 122 may vary depending on the number of first peripheral portions 111.

[0025] One side of the first fastening member 101 may be connected to one side of the second fastening member 102, and the other side of the first fastening member 101 may be connected and coupled to the other side of the second fastening member 102.

[0026] One side of the connection member 103 may be coupled to the first peripheral portion 111 provided at one side of the first fastening member 101, and the other side of the connection member 103 may be coupled to the second peripheral portion 121 provided at one side of the second fastening member 102, such that the connection member 103 may connect the first fastening member 101 and the second fastening member 102. Like the first fastening member 101 and the second fastening member 102, the

connection member 103 may be made of a metallic material.

[0027] With reference to FIG. 2, the connection member 103 may include a first portion 131, and a second portion 132 perpendicularly extending from the first portion 131. As an example of the present device, the connection member 103 may have a '└' shape. An end of the first peripheral portion 111 provided at one side of the first fastening member 101 may perpendicularly extend in a direction away from the stem of the tree. Because the connection member 103 extends perpendicularly as described above, one surface of an end of the first peripheral portion 111 may overlap one surface of the second portion 132, and the connection member 103 and the first peripheral portion 111 may be coupled to each other while being fixed by the fixing member 104 that penetrates the pair of surfaces that overlap each other.

[0028] In addition, a plurality of holes H1 may be formed at an end of the second peripheral portion 121 provided at one side of the second fastening member 102. As illustrated in FIG. 2, the first portion 131 may be inserted into any one of the plurality of holes H1, such that the second fastening member 102 may be connected to the second portion 132.

[0029] Therefore, one side of the first fastening member 101 and one side of the second fastening member 102 may be connected to each other by means of the connection member 103.

[0030] A plurality of holes H2 is formed at an end of the second peripheral portion 121 provided at the other side of the second fastening member 102. As illustrated in FIG. 1, the first

peripheral portion 111, which is provided at the other side of the first fastening member 101, is inserted into any one of the plurality of holes H2, such that the other side of the first fastening member 101 and the other side of the second fastening member 102 may be connected to each other.

[0031] As described above, the two fastening members 101 and 102 of the support 1000 for a tree of the present device may surround the stem of the tree to support the tree. One side of the first fastening member 101 and one side of the second fastening member 102 may be connected to each other by the connection member 103 having a '└' shape at one side in order to increase a coupling force to the tree. The other side of the first fastening member 101 and the other side of the second fastening member 102 may be connected to each other by inserting the first peripheral portion 111 into the hole formed in the second peripheral portion 121, such that the first fastening member 101 and the second fastening member 102 may be easily detached.

[0032] With reference to FIGS. 1, 3, and 4, a width of each of holes H3 defined between the first protruding portion 112 and the stem of the tree and between the second protruding portion 122 and the stem of the tree may decrease in the direction away from the stem of the tree. As illustrated in FIG. 4, in case that the first fastening member 101 and the second fastening member 102 are connected to each other and support the stem of the tree, the holes (space) H3 may be formed between the first protruding portion 112 and the tree and between the second

protruding portion 122 and the tree, and the width of the hole H3 may decrease in the direction away from the stem of the tree. For example, a shape of each of the first and second protruding portions 112 and 122 may have a triangular shape having a width that decreases outward.

[0033] Because the first and second protruding portions 112 and 122 are formed such that the width of the hole H3 defined by the tree decreases outward, the width of the hole H3 gradually increases when the tree is grown and thickened, such that the support 1000 for a tree may strongly support the tree, and the support 1000 for a tree may be prevented from being loosened or damaged by the growth of the tree.

[0034] It will be appreciated that the above-mentioned embodiments have been described above for purposes of illustration, and those skilled in the art may understand that the above-mentioned embodiments may be easily modified in other specific forms without changing the technical spirit or the essential features of the above-mentioned embodiments. Therefore, it should be understood that the above-described embodiments are illustrative in all aspects and do not limit the present device. For example, each component described as a single type may be carried out in a distributed manner. Likewise, components described as a distributed type can be carried out in a combined type.

[0035] The scope of the present device is represented by the claims to be described below rather than the detailed description in the present specification, and it should be

interpreted that the meaning and scope of the claims and all the changes or modified forms derived from the equivalent concepts thereto fall within the scope of the present device.

What Is Claimed Is:

1. A support for a tree, the support comprising:

a first fastening member extending along a periphery of a stem of a tree and including a plurality of first peripheral portions each having one surface disposed to be in contact with a peripheral surface of the stem of the tree, and a first protruding portion disposed between the plurality of first peripheral portions and extending and protruding in a direction in which the first protruding portion is spaced apart from the stem of the tree from the first peripheral portion; and

a second fastening member extending along the periphery of the stem of the tree and including a plurality of second peripheral portions each having one surface disposed to be in contact with the peripheral surface of the stem of the tree, and a second protruding portion disposed between the plurality of second peripheral portions and extending and protruding in a direction in which the second protruding portion is spaced apart from the stem of the tree from the second peripheral portion,

wherein one side of the first fastening member is connected to one side of the second fastening member,

wherein the other side of the first fastening member is connected and coupled to the other side of the second fastening member,

wherein the stem of the tree is positioned in a hole defined between the first fastening member and the second fastening member when the first fastening member and the second fastening member are coupled, and

wherein the tree is supported as the peripheral surface of the tree comes into contact with an inner surface of the first peripheral portion of the first fastening member and an inner surface of the second peripheral portion of the second fastening member.

2. The support of claim 1, wherein a width of each of holes defined between the first protruding portion and the stem of the tree and between the second protruding portion and the stem of the tree decreases in a direction away from the stem of the tree.

3. The support of claim 2, further comprising:

a connection member having one side coupled to the first peripheral portion provided at one side of the first fastening member, and the other side coupled to the second peripheral portion provided at one side of the second fastening member, the connection member being configured to connect the first fastening member and the second fastening member,

wherein a plurality of holes is formed at an end of the second peripheral portion provided at the other side of the second fastening member, and

wherein the first peripheral portion, which is provided at the other side of the first fastening member, is inserted into any one of the plurality of holes, such that the other side of the first fastening member and the other side of the second fastening member are connected.

4. The support of claim 3, wherein the connection member comprises a first portion, and a second portion perpendicularly extending from the first portion, and

5 wherein an end of the first peripheral portion, which is provided at one side of the first fastening member, perpendicularly extends in the direction away from the stem of the tree and overlaps the second portion, such that the connection member and the first peripheral portion are coupled
10 to each other while being fixed by a fixing member.