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(54) **BICYCLE HANDLE STAKE WITH DOUBLE LOCKING PORTIONS**

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(57) **ABSTRACT**

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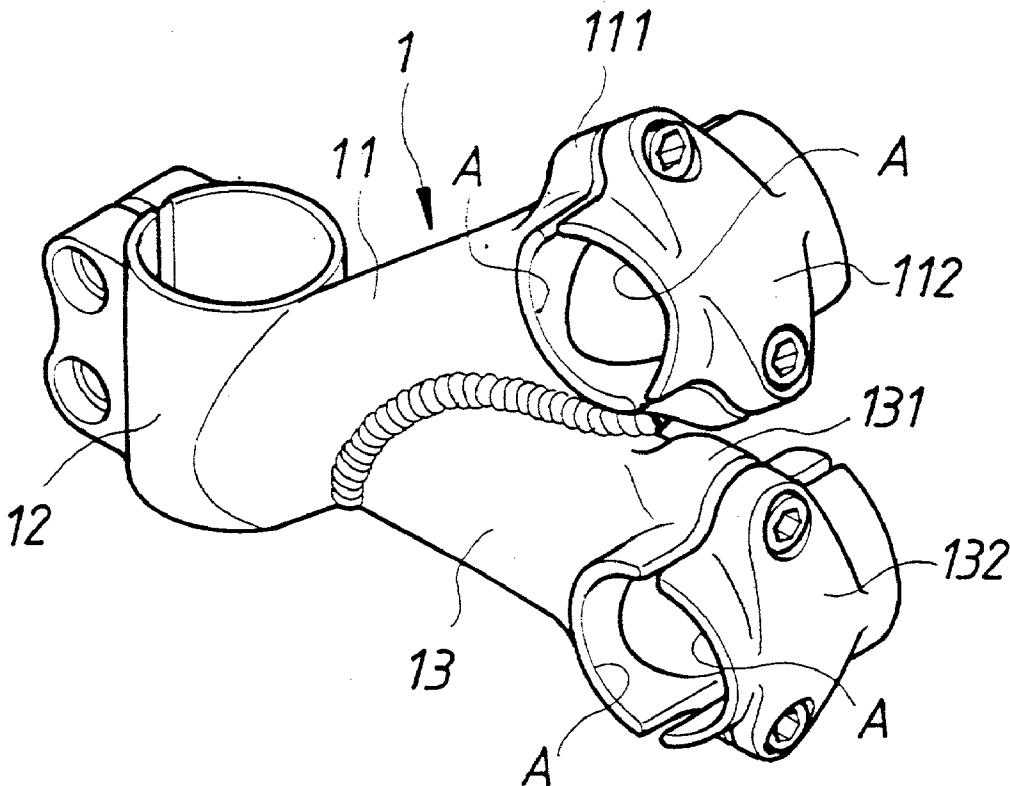
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A bicycle handle stake with double locking portions is disclosed, especially a stake structure for combining the handle and the auxiliary handle is disclosed. The outer surface of a handle stake of the bicycle is extended with a main tube body and a secondary tube body, the main tube body and the secondary tube body have a respective locking portion for being locked by the handle and an auxiliary handle of a bicycle. Therefore, the handle and auxiliary handle of a bicycle are combined by the present invention. Thus, the assembly of the auxiliary handle can be complete rapidly without needing any other handle combining components. Therefore, it can be assembled easily and conveniently.



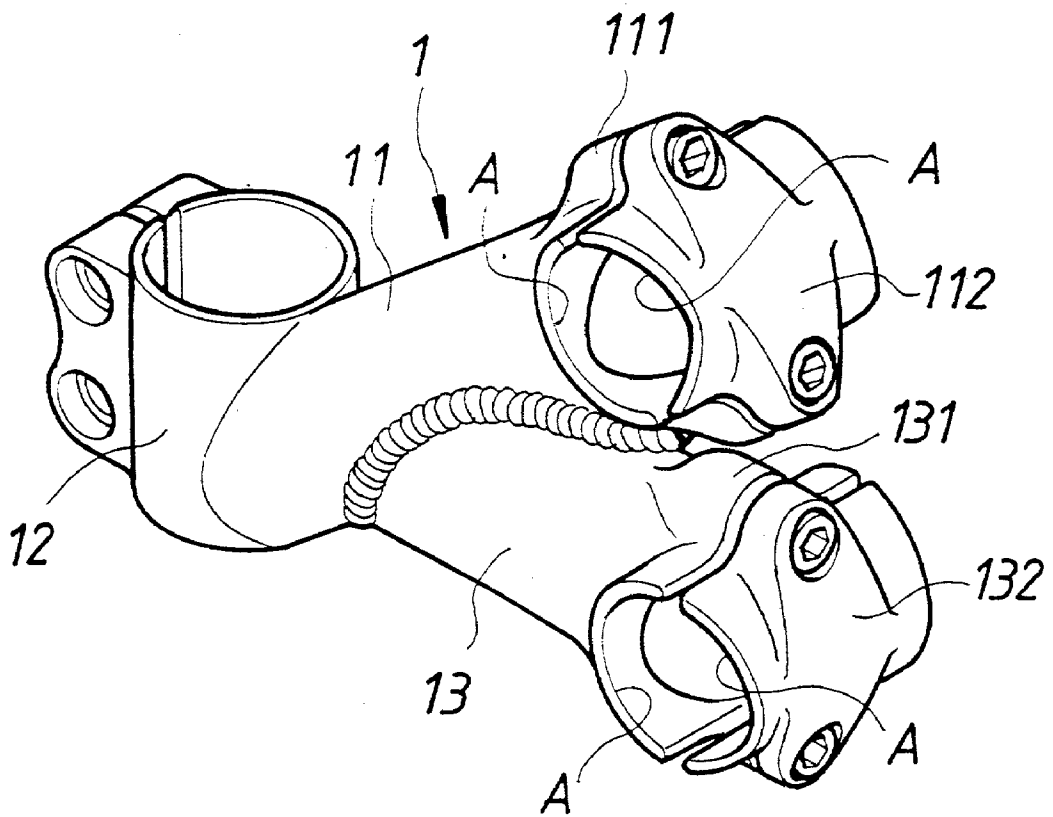


FIG. 1

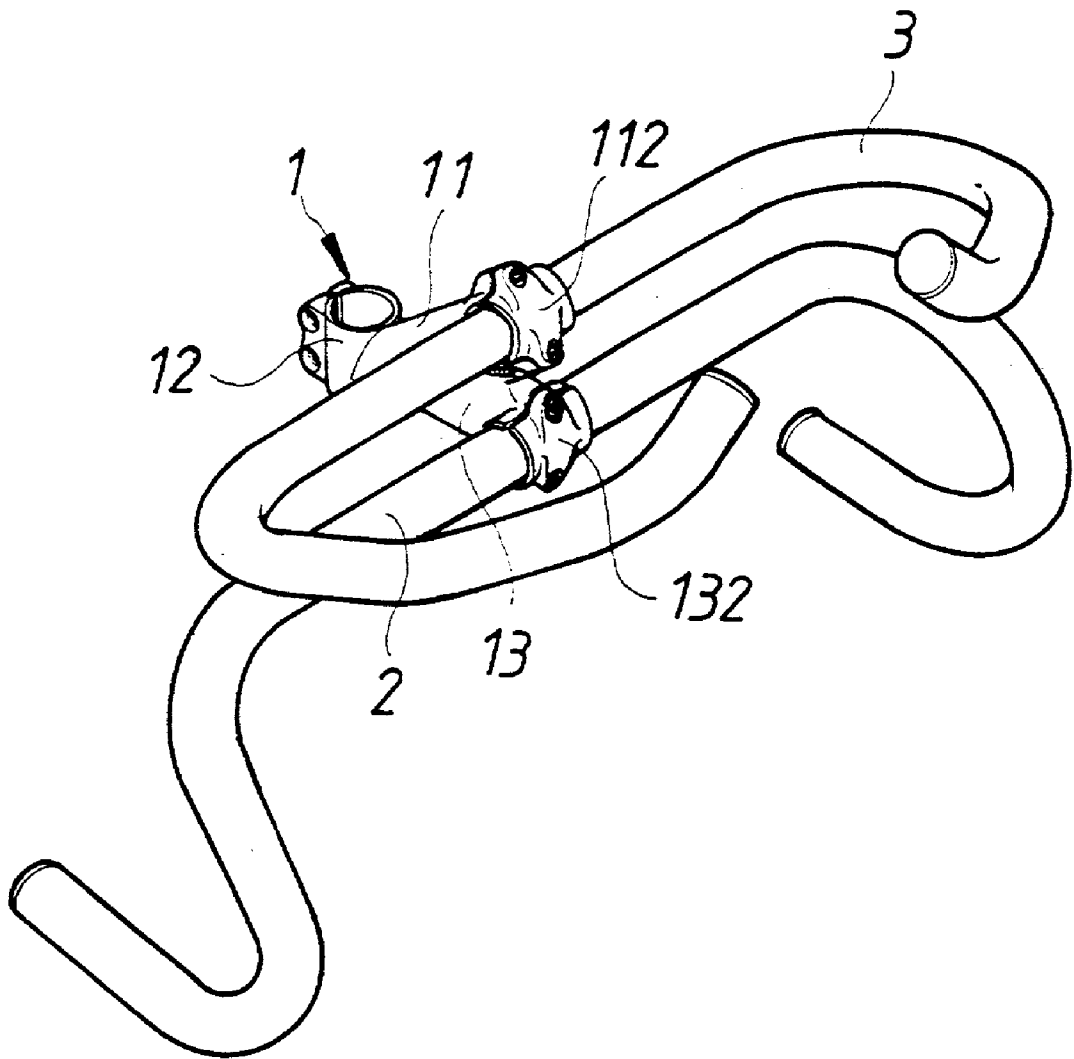


FIG. 2

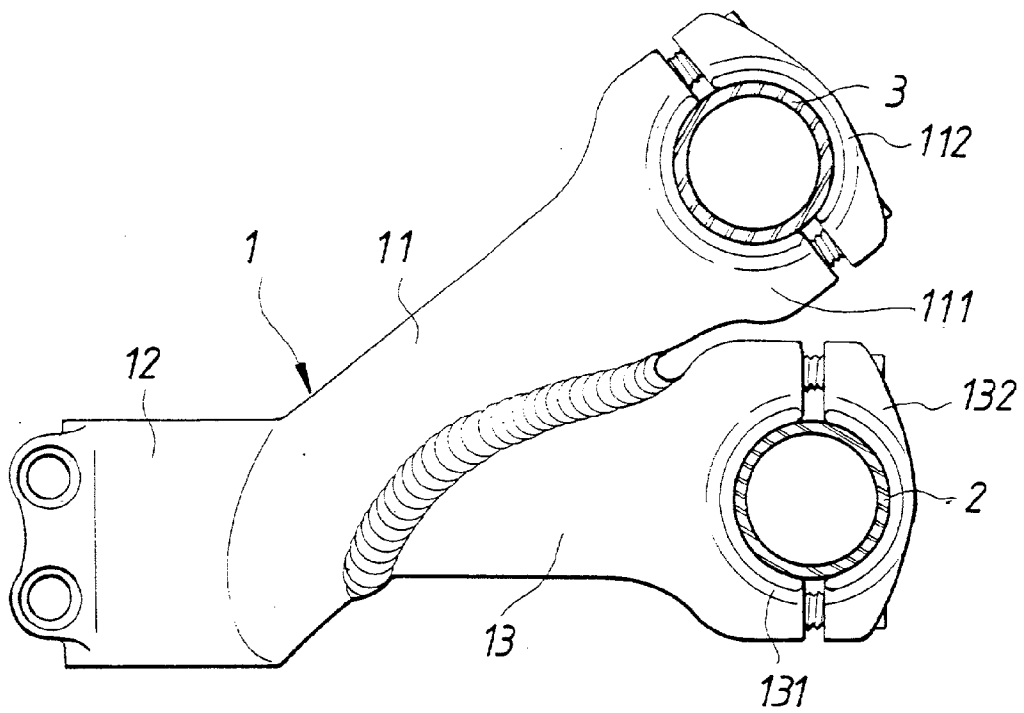


FIG. 3

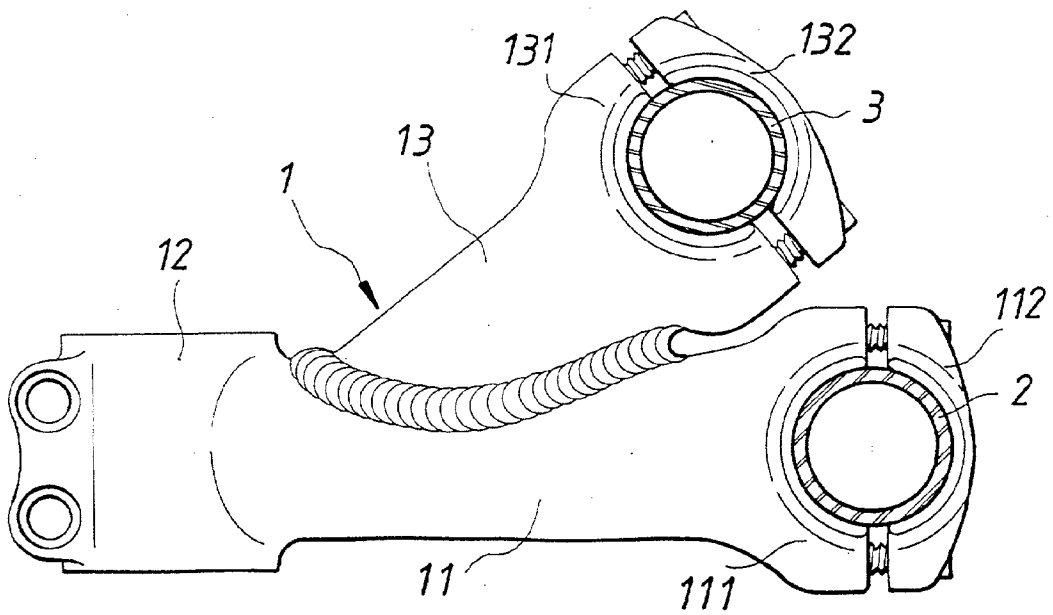


FIG. 4

BICYCLE HANDLE STAKE WITH DOUBLE LOCKING PORTIONS

FIELD OF THE INVENTION

[0001] The present invention relates to a bicycle handle stake with double locking portions, wherein the front end of the handle stake in a bicycle is biforked so as to be formed as an upper and a lower locking portion for locking the handle and an auxiliary handle in the bicycle. Therefore, the assembly work of a bicycle is reduced, and the cost is reduced.

BACKGROUND OF THE INVENTION

[0002] In the prior art bicycle, as an auxiliary handle is further assembled, two sets of handle joints are necessary to connect the auxiliary handle and the handle. Therefore, more components are necessary and much working time is required so that the cost in finishing is increased and thus it is uneconomic.

SUMMARY OF THE INVENTION

[0003] Accordingly, the primary object of the present invention is to provide a bicycle handle stake with double locking portions, especially a stake structure for combining the handle and the auxiliary handle. The outer surface of a handle stake of the bicycle is extended with a main tube body and a secondary tube body, the main tube body and the secondary tube body have a respective locking portion for being locked by the handle and an auxiliary handle of a bicycle. Therefore, the handle and auxiliary handle of a bicycle are combined by the present invention. Thus, the assembly work of the auxiliary handle can be complete rapidly without needing any other handle combining components. Therefore, it can be assembled easily and conveniently, and thus the manufacturing cost is reduced greatly.

[0004] The various objects and advantages of the present invention will be more readily understood from the following detailed description when read in conjunction with the appended drawing.

BRIEF DESCRIPTION OF THE DRAWINGS

[0005] FIG. 1 is a perspective view of the present invention.

[0006] FIG. 2 shows an application embodiment of the present invention.

[0007] FIG. 3 is an embodiment showing that the main tube body and the secondary tube body are welded.

[0008] FIG. 4 is another embodiment showing that the main tube body and the secondary tube body are welded.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

[0009] With reference to FIG. 1, the bicycle handle stake with double locking portions of the present invention is illustrated therein. The handle stake 1 has a tube shape. The stake is extended with a main tube body 11 and a secondary tube body 13. The rear end of the main tube body 11 has an upright circle combining end 12 so that thereby, the handle stake 1 can be locked to the upper end of the front biforked tube of a bicycle. Moreover, the front end of the main tube

body 11 of the handle stake 1 is shaped with a locking portion 111. The front surface of the locking portion 111 is formed with a concave cambered surface A. By a locking cover 112 with the concave cambered surface A, they are locked with one another. The aforesaid secondary tube body 13 and the main tube body 11 are formed as a biforked tube body. The front end thereof is also formed with a locking portion 131. The front surface of the locking portion 131 is formed with a concave cambered surface A. The front end thereof is disposed with a locking portion 131 and the front end of the locking portion 131 is disposed with a concave cambered surface A. A locking cover 132 with a concave cambered surface A at the inner side thereof is locked to the correspondent locking portion 131.

[0010] As shown in FIG. 2, the bicycle handle 2 and the auxiliary handle 3 are located in the front concave cambered surfaces A of the main tube body 11 and the secondary tube body 13. By the locking of the locking covers 112 and 132, they are tightly positioned.

[0011] As shown in FIG. 3, the secondary tube body 13 can be installed at the upper or lower surface of the main tube body 11 (as shown in FIG. 4) dependent on the orientation of the main tube body 11. If the orientation of the main tube body 11 is tilt upwards, then the secondary tube body 13 is flatly installed at the lower surface of the main tube body 11. On the contrary, if the main tube body 11 has installed horizontally, then the secondary tube body 13 is installed at the upper surface of the main tube body. A proper clamping angle is retained between the main tube body 11 and the secondary tube body 13. Therefore, when the handle 2 and the auxiliary handle 3 are assembled, the locking portions 111 and 131 of the tube bodies can be interfered with one another.

[0012] Further, the bicycle handle stake with double locking portions of the present invention is primarily used to combine the handle 2 to an auxiliary handle 3 of a bicycle, thus, no any limitation to the locking portions 111 and 131 at front ends of the main tube body 11 and the secondary tube body 13. Such as general used C shape locking portion can be used. Similarly, the upright cyclic combining end 12 can be replaced by an inserting type combining rod to achieve the object of fixing the handle stake. Moreover, other than by welding, the secondary tube body 13 can be made by forging or other integral formed way.

[0013] Although the present invention has been described with reference to the preferred embodiments, it will be understood that the invention is not limited to the details described thereof. Various substitutions and modifications have been suggested in the foregoing description, and others will occur to those of ordinary skill in the art. Therefore, all such substitutions and modifications are intended to be embraced within the scope of the invention as defined in the appended claims.

What is claimed is:

1. A bicycle handle stake with double locking portions, wherein an outer surface of a handle stake of the bicycle is extended with a main tube body and a secondary tube body, the main tube body and the secondary tube body have a respective locking portion for being locked by the handle and an auxiliary handle of a bicycle.

2. The bicycle handle stake with double locking portions as claimed in claim 1, wherein each of the locking portion of

the main tube body and the secondary tube body has a concave cambered surface at the front surface thereof, the cambered surface is locked by a locking cover with a corresponding concave cambered surface for steadily combing the handle with the auxiliary handle.

3. The bicycle handle stake with double locking portions as claimed in claim 1, wherein a proper angle is formed between the main tube body and the secondary tube body.

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