## CLAIMS

1. A pivotable tundish (1) for continuous casting a metal alloy, the tundish (1) comprises a body (3) adapted to be pivoted between a casting state and a non-casting state, the body (3) comprises a first chamber (5) and a second chamber (7) separated from each other, a first passage (12) between the first chamber (5) and the second chamber (7), and a second passage (16) between the second chamber (7) and a mold (9) for continuous casting the metal alloy, wherein in the non-casting state the first chamber (5) is adapted to receive and hold a base metal in molten condition, which base metal constitutes the base of the metal alloy that is formed by adding one or more alloying elements to the base metal, wherein in the casting state said metal alloy is fed from the second chamber (7) to the mold (9) through the second passage (16),
characterized in that
the second chamber (7) further comprises a first portion (30) to which the first passage (12) is connected and a second portion (32) to which the second passage (16) is connected, which first portion (30) and second portion (32) are separated from each other, and a third passage (36) between the first portion (30) and the second portion (32), wherein the metal alloy is adapted to be formed when the tundish (1) is in the casting state in that the base metal from the first chamber (5) is fed from the first chamber (5) to the first portion (30) through the first passage (12) and from the first portion (30) to the second portion (32) through the third passage (36) while adding the one or more alloying elements to the second portion (32) of the second chamber (7).

2. The pivotable tundish (1) according to claim 1, wherein the tundish (1) comprises a pivoting arrangement for pivoting the body (3) between the casting state and the non-casting state that relate to different orientation of the tundish (1).

3. The pivotable tundish (1) according to any of claim 1 and 2, wherein the tundish (1) comprises a supply arrangement (22) for supplying the one or more alloying elements to the base metal, which supply arrangement (22) is directed so that the alloying elements are fed into the second portion (32) of the second chamber (7).

4. The pivotable tundish (1) according to any of the previous claims, wherein the body (3) of the tundish (1) comprises a first wall section (10) provided with the first passage (12), a second wall section (14) provided with the second passage (16) and a third wall section (34) provided with the third passage (36), wherein the wall sections are arranged so that the first wall section (10) separates the first chamber (5) from the first portion (30) of the second chamber (7), the second wall section (14) separates the second portion (32) of the second chamber (7) from the mold (9), and the third wall section (34) separates the first portion (30) from the second portion (32) of the second chamber (7).

5. The pivotable tundish (1) according to any of the previous claims, wherein the second passage (16) is extending so to enable continuous horizontal casting of the metal alloy.

6. The pivotable tundish (1) according to any of the previous claims, wherein the tundish (1) comprises heating means for heating the base metal and/or the metal alloy.

7. The pivotable tundish (1) according to any of the previous claims, wherein at least one of the first passage (12), the second passage (16) and the third passage (36) comprises a plurality of through holes in the corresponding wall section.

8. The pivotable tundish (1) according to any of the previous claims, wherein the volume of the second chamber (7) is smaller than the first chamber (5).

9. A method for continuous casting a metal alloy by means of a tundish (1) comprising a body (3) adapted to be pivoted between a casting state and a non-casting state, the body (3) comprises a first chamber (5) and a second chamber (7) separated from each other, a first passage (12) between the first chamber (5) and the second chamber (7), and a second passage (16) between the second chamber (7) and a mold (9) for continuous casting the metal alloy, wherein the method comprises:
- pivoting the body (3) of the tundish (1) to the non-casting state,
- adding a base metal to the first chamber (5) when the tundish (1) is in the non-casting state,
- pivoting the body (3) of the tundish (1) from the non-casting state to the casting state, and thereby casting the base metal,
- subsequent to casting the base metal, adding one or more alloying elements to the base metal in the second chamber (7) so that the metal alloy is formed, and thereby casting the metal alloy.

10. The method according to claim 9, wherein the second chamber (7) further comprises a first portion (30) to which the first passage (12) is connected and a second portion (32) to which the second passage (16) is connected, which first portion (30) and second portion (32) are separated from each other, and a third passage (36) between the first portion (30) and the second portion (32), the method comprises:
- subsequent to casting the base metal, adding the one or more alloying elements to the base metal in the second portion (32) of the second chamber (7) so that metal alloy is formed, and thereby casting the metal alloy.

11. The method according to any of claim 9-10, wherein the method further comprises:
- casting the base metal during a first certain period prior to the addition of the one or more alloying elements to the base metal.

12. The method according to any of claim 9-11, wherein the method further comprises:
- stopping the addition of the one or more alloying elements to the base metal in the second chamber (7),
- continue casting subsequent to stopping the addition of the one or more alloying elements to the base metal until only casting the base metal,
- pivoting the body (3) of the tundish (1) from the casting state to the non-casting state, and thereby stop casting.

13. The method according to any of claim 9-12, wherein the method comprises continue casting subsequent to stopping the addition of the one or more alloying elements during a second certain period.

14. The method according to any of claim 9-13, wherein the base metal comprises a single metal element or a mixture of two or more metal elements.

15. The method according to any of claim 9-14, wherein the base metal comprises mainly copper and the one or more alloying element comprises at least one of silver, tin, zinc, and alloys thereof.

16. The method according to any of claim 9-15, wherein casting the metal alloy in the form of an elongated cast bar comprising a first end part relating to a start-up phase of the casting of the metal alloy and a second end part relating to a shut-down phase of the casting of the metal alloy, wherein the method further comprises:
- removing at least one of the first end part and the second end part of the cast bar.

17. Use of a pivotable tundish (1) according to any of claim 1-8 for continuous casting a metal alloy.

18. An elongated cast bar of a metal alloy continuously cast by means of a method according to any of claim 9-16.

CLAIMS

1. A pivotable tundish for continuous casting a metal alloy, the tundish comprises a body adapted to be pivoted between a casting state and a non-casting state, the body comprises a first chamber and a second chamber separated from each other, a first passage between the first chamber and the second chamber, and a second passage between the second chamber and a mold for continuous casting the metal alloy, wherein in the non-casting state the first chamber is adapted to receive and hold a base metal in molten condition, which base metal constitutes the base of the metal alloy that is formed by adding one or more alloying elements to the base metal, wherein in the casting state said metal alloy is fed from the second chamber to the mold through the second passage,characterized in that the second chamber further comprises a first portion to which the first passage is connected and a second portion to which the second passage is connected, which first portion and second portion are separated from each other, and a third passage between the first portion and the second portion, wherein the metal alloy is adapted to be formed when the tundish is in the casting state in that the base metal from the first chamber is fed from the first chamber to the first portion through the first passage, and the tundish comprises a supply arrangement for supplying the one or more alloying elements to the base metal, which supply arrangement is directed so that the alloying elements are fed into the second portion of the second chamber.

2. The pivotable tundish according to claim 1, wherein the tundish comprises a pivoting arrangement for pivoting the body between the casting state and the non-casting state that relate to different orientation of the tundish.

3. The pivotable tundish according claim 1 or 2, wherein the body of the tundish comprises a first wall section provided with the first passage, a second wall section provided with the second passage and a third wall section provided with the third passage, wherein the wall sections are arranged so that the first wall section separates the first chamber from the first portion of the second chamber, the second wall section

separates the second portion of the second chamber from the mold, and the third wall section separates the first portion from the second portion of the second chamber.

4. The pivotable tundish according to any of claims 1-3, wherein the second passage is extending so to enable continuous horizontal casting of the metal alloy.

5. The pivotable tundish according to any of claims 1-4, wherein the tundish comprises heating means for heating the base metal and/or the metal alloy.

6. The pivotable tundish according to any of claims 1-5, wherein at least one of the first passage, the second passage and the third passage comprises a plurality of through holes in the corresponding wall section.

7. The pivotable tundish according to any of claims 1-6, wherein the volume of the second chamber is smaller than the first chamber.

8. A method for continuous casting a metal alloy by means of a tundish comprising a body adapted to be pivoted between a casting state and a non-casting state, the body comprises a first chamber and a second chamber separated from each other, a first passage between the first chamber and the second chamber, and a second passage between the second chamber and a mold for continuous casting the metal alloy, wherein the method comprises:
- pivoting the body of the tundish to the non-casting state,
- adding a base metal to the first chamber when the tundish is in the non-casting state,
- pivoting the body of the tundish from the non-casting state to the casting state, and thereby casting the base metal,
- subsequent to casting the base metal, adding one or more alloying elements to the base metal in the second chamber so that the metal alloy is formed, and thereby casting the metal alloy.

9. The method according to claim 8, wherein the second chamber further comprises a

first portion to which the first passage is connected and a second portion to which the second passage is connected, which first portion and second portion are separated from each other, and a third passage between the first portion and the second portion, the method comprises:
- subsequent to casting the base metal, adding the one or more alloying elements to the base metal in the second portion of the second chamber so that metal alloy is formed, and thereby casting the metal alloy.

10. The method according to any of claim 8 or 9, wherein the method further comprises:
- casting the base metal during a first certain period prior to the addition of the one or more alloying elements to the base metal.

11. The method according to any of claims 8-10, wherein the method further comprises:
- stopping the addition of the one or more alloying elements to the base metal in the second chamber,
- continuous casting subsequent to stopping the addition of the one or more alloying elements to the base metal until only casting the base metal,
- pivoting the body of the tundish from the casting state to the non-casting state, and thereby stop casting.

12. The method according to any of claims 8-11, wherein the method comprises continuous casting subsequent to stopping the addition of the one or more alloying elements during a second certain period.

13. The method according to any of claims 8-12, wherein the base metal comprises a single metal element or a mixture of two or more metal elements.

14. The method according to any of claims 8-13, wherein the base metal comprises mainly copper and the one or more alloying element comprises at least one of silver, tin, zinc, and alloys thereof.

15. The method according to any of claims 8-14, wherein casting the metal alloy in the form of an elongated cast bar comprising a first end part relating to a start-up phase of the casting of the metal alloy and a second end part relating to a shut-down phase of the casting of the metal alloy, wherein the method further comprises:

- removing at least one of the first end part and the second end part.