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(54) Benævnelse: **Improvements in or relating to the thawing of raw milk**

(57) Sammendrag:

This invention relates to a system for thawing, heating or pasteurizing milk comprising a container for storing milk and a thawing tub, which is adapted for holding a thawing liquid and said container such that it is at least partly covered with said thawing liquid, preferably water, when positioned in said thawing tub, where said thawing tub further comprises means for creating movement in said thawing liquid.

The invention moreover relates to a thawing tub, a container, and a method of thawing milk placed in a container for storing milk. The method comprises the steps of a) positioning the container in a thawing tub adapted for holding a thawing liquid and said container such that it is at least partly covered with said thawing liquid when positioned in said thawing tub, and b) creating movement in said thawing liquid and thereby thawing the frozen milk in the container.

fortsættes

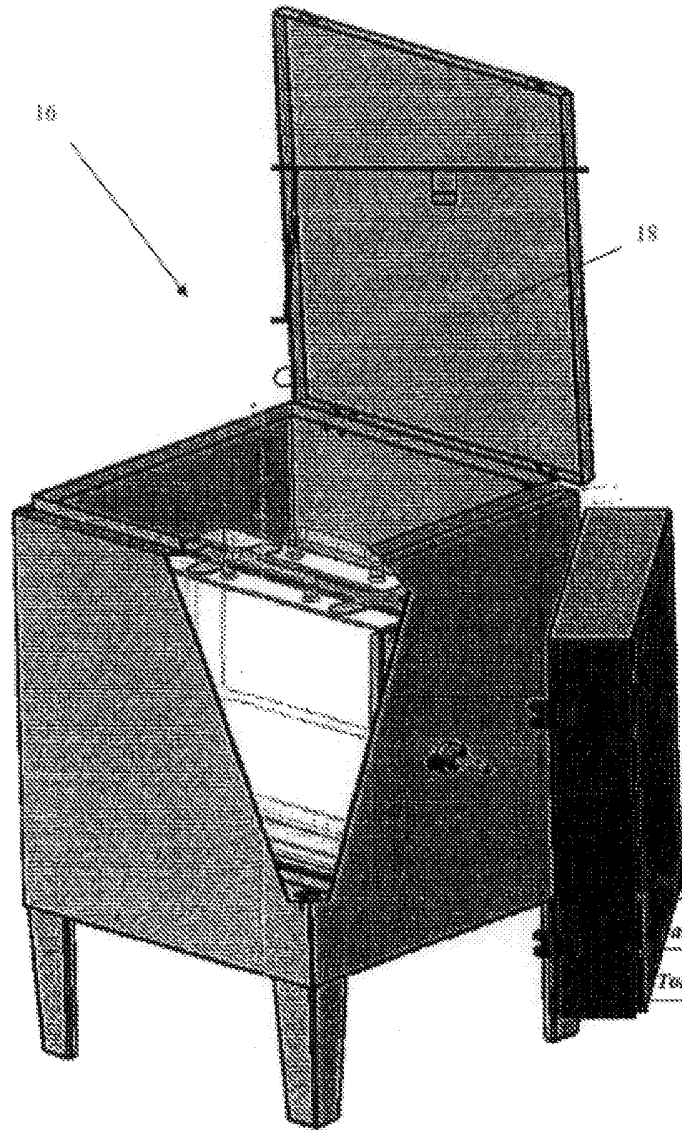


FIG. 3

CLAIMS

1. A system for thawing frozen milk comprising a container (2) for storing said raw milk and a thawing tub (16),
- 5 - said thawing tub (16) is adapted for holding
- a thawing liquid, such as water,
 - said container (2) such that it is at least partly covered with said thawing liquid when positioned in said thawing tub (16),
- 10 said thawing tub (16) further comprises means for creating movement in said thawing liquid.
2. A system according to claim 1, wherein said container (2) comprises a flexible container (2) mounted in a cassette (14), and wherein said thawing tub (16) further comprises a rack module for holding said container (2).
- 15
3. A system according to claim 2, wherein the means for creating movement in said thawing liquid comprises means for rotating said rack and thereby said container placed in said rack.
- 20
4. A thawing tub (16) for a system for thawing frozen milk comprising a container (2) for storing said raw milk, said thawing tub is adapted for holding
- a thawing liquid, such as water,
 - said container such that it is at least partly covered with said thawing liquid when positioned in said thawing tub (16),
- 25 said thawing tub (16) further comprises means for creating movement in said thawing liquid.
5. A thawing tub (16) according to claim 4, wherein said thawing tub (16) further comprises a rack module for holding said container (2).

6. A thawing tub (16) according to claim 5, wherein the means for creating movement in said thawing liquid comprises means for rotating said rack module for holding said rack.

5 7. A system according to claim 1, wherein said thawing tub (16) comprises means for changing the temperature of thawing liquid in said thawing tub (16).

8. A container (2) for a system for thawing frozen milk comprising a thawing
10 tub (16) adapted for holding a thawing liquid, such as water, and where said thawing tub (16) further comprises means for creating movement in said thawing liquid, said container (2) is for storing said raw milk and is dimensioned such that it is at least partly covered with said thawing liquid when positioned in said thawing tub (16).

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9. A container (2) according to claim 8, wherein the container (2) comprises a flexible container (2) and a cassette (14), wherein the flexible container (2) is adapted to be mounted in said cassette (14).

20 10. A container according to claims 8 and 9, wherein the cassette (14) has a surface with inside channels allowing the tempered water to be in continuous contact with the surface of the flexible container (2) with the frozen milk.

11. A container (2) according to claims 8, 9 and 10, wherein the container (2)
25 comprises a spout, preferably a screw top (6).

12. A container according to claims 8, 9, 10 and 11, wherein the container (2) comprises perforation for fixing the container (2) in the cassette (14) when the flexible container (2) is mounted in said cassette (14).

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13. A method of thawing frozen milk placed in a container (2) for storing said milk, said method comprises the steps of:

- positioning said container (2) in a thawing tub (16), adapted for holding
 - o a thawing liquid, such as water,
 - 5 o said container (2) such that it is at least partly covered with said thawing liquid when positioned in said thawing tub (16),
- creating movement in said thawing liquid and thereby thawing said frozen milk in said container (2).

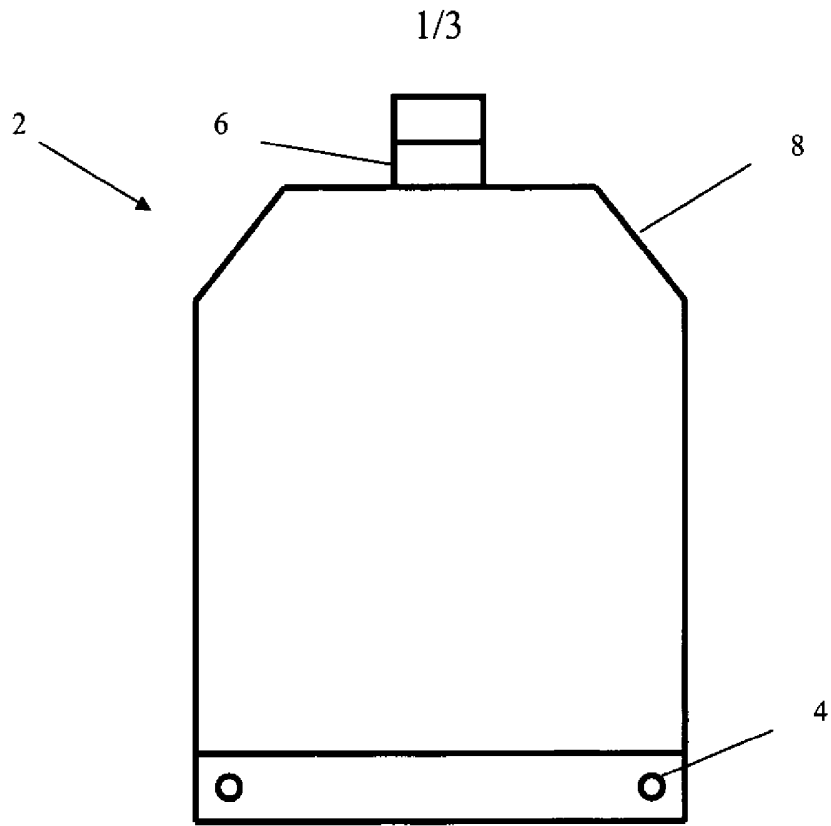


FIG. 1

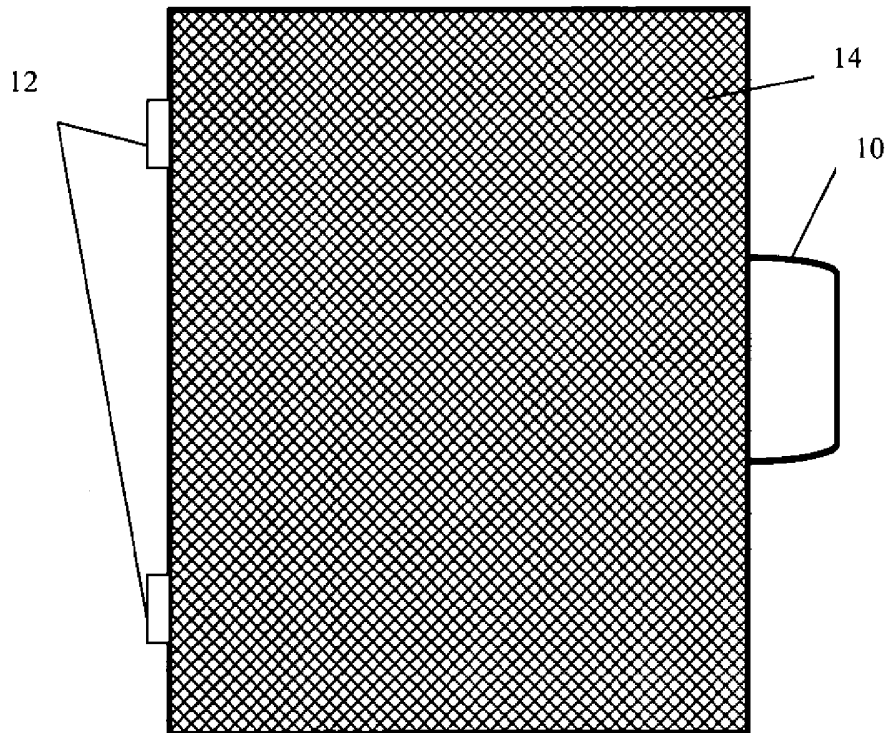


FIG. 2

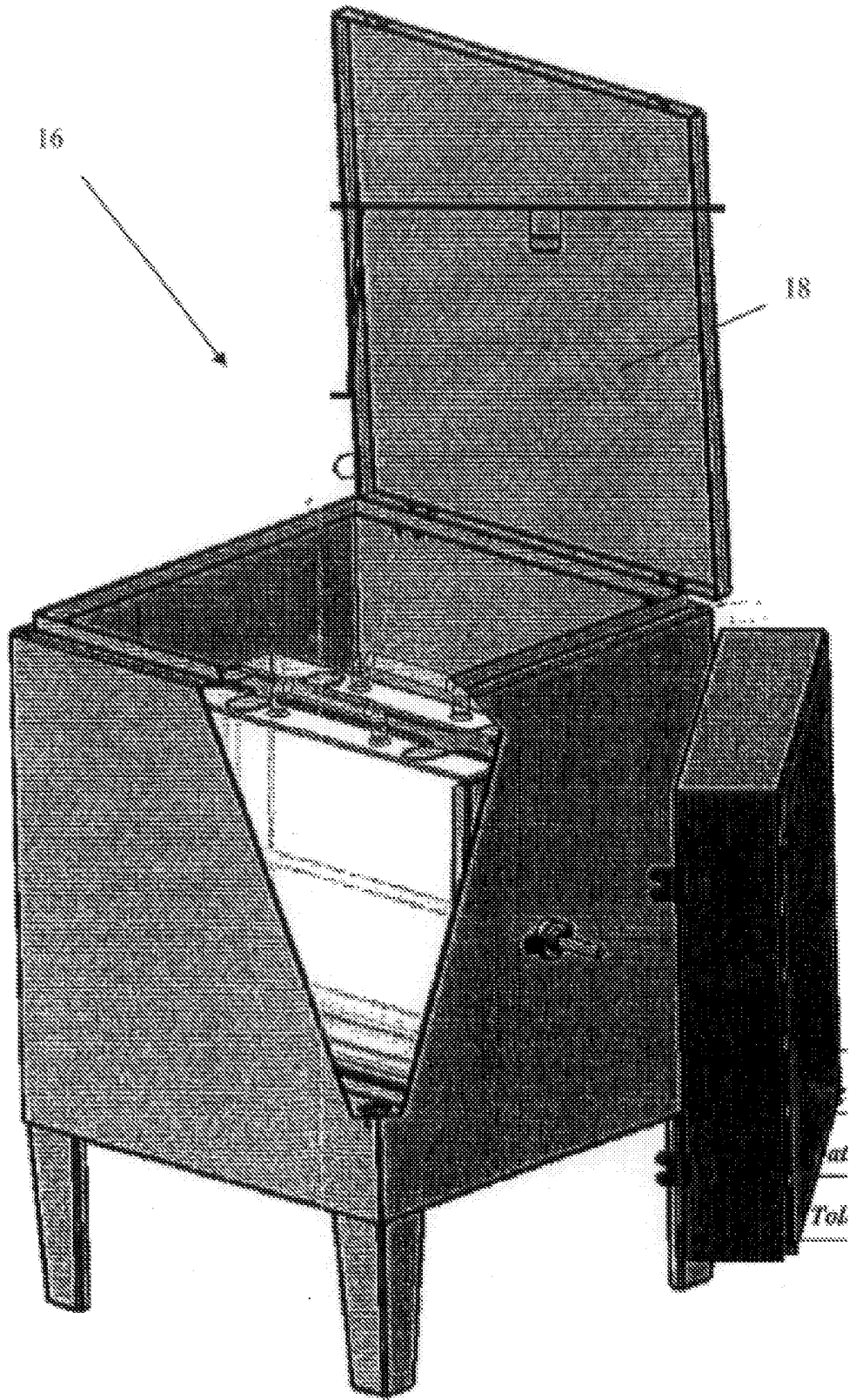


FIG. 3

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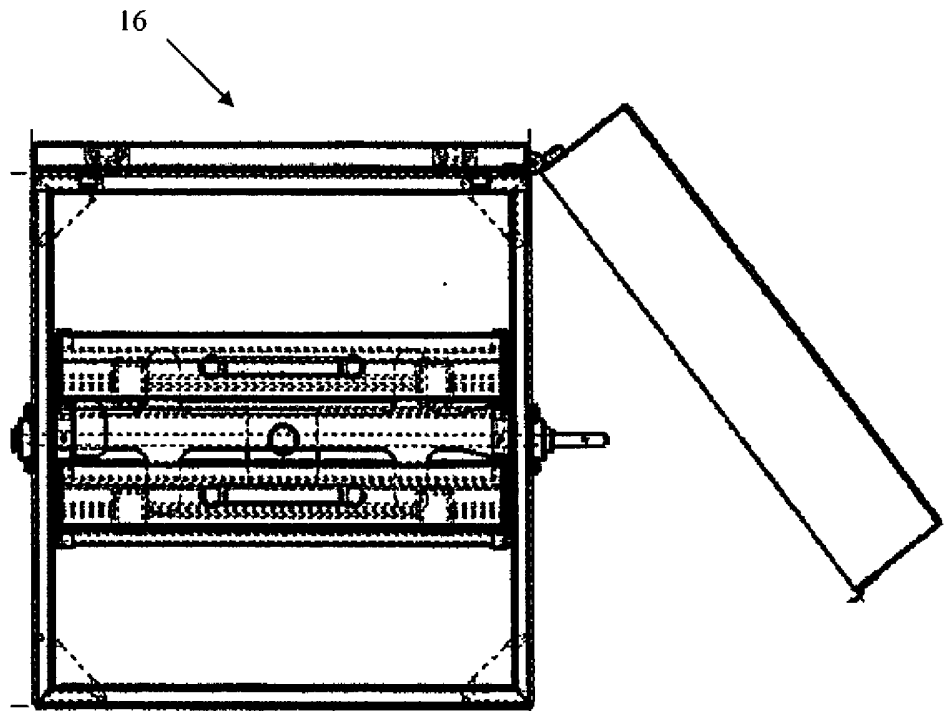


FIG. 4