

Specification

BEVERAGE EXTRACTING BAG

Technical Field

5 The present invention relates to a beverage extracting bag having a tag, which is used in dipping the beverage extracting bag in hot water and stirring it, integrally formed by punching out a sheet having a water resistant property and a thermal fusing property. Furthermore, with respect to the materials for the extracting bag and the tag, the extracting bag with a filtration property is
10 made of polymethyl lactide (polymer of lactic acid) fiber obtained through lactic acid fermentation of corn starch, polymerization of the resultant fermentation product and spinning of the resultant polymer, and the tag is made of a non-woven sheet of the polymethyl lactide fiber with a water resistant property and a thermal fusing property. Accordingly, a beverage extracting bag that can
15 be completely decomposed by microorganism in soil after the use is provided.

Background Art

 A tag provided on a beverage extracting bag is conventionally composed of three parts, that is, a finger gripping part provided at the tip, a thread-like
20 part for linking the finger gripping part with a bag for enclosing the material of a beverage, and a base part for adhering the end of the thread-like part on the bag. These parts are linked with one another through adhesion or thermal fusing. Therefore, in the fabrication of tags, a large number of materials are necessary, and an operation such as the adhesion or the thermal fusing is
25 necessary in assemble for linking them. For example, Patent Document 1

describes a large number of examples of the structure of a tag and the state for providing it on a beverage extracting bag.

Patent Document 1: Japanese Laid-Open Patent Publication No. Hei 7-61465

5 In conventional beverage extracting bags, however, none of known tags has a structure in which all the three parts, i.e., the finger gripping part provided at the tip of the tag, the thread-like part for linking the finger gripping part with the extracting bag and the base part for adhering the end of the thread-like part on the bag, are integrated with one another. Moreover,
10 none of known beverage extracting bags can be completely decomposed, as a whole including the tag, by microorganism in soil after the use.

Disclosure of Invention

(Problems to be Solved by the Invention)

15 A tag is conventionally composed of three parts, that is, a finger gripping part provided at the tip, a thread-like part for linking the finger gripping part with an extracting bag and a base part for adhering the end of the thread-like part on the bag. The present invention aims to develop a production method for a beverage extracting bag simplified in the production
20 procedures and improved in the productivity by integrally forming an entire tag composed of these three parts by punching out a water-resistant sheet, and further preferably by using a material with a thermal fusing property for the sheet and the bag and by providing the tag on the extracting bag through the thermal fusing. Moreover, in consideration of harmony with environment, the
25 invention aims to develop an extracting bag that can be completely decomposed

by microorganism in soil after use through examination of the materials for the beverage extracting bag and the tag.

(Means for Solving the Problems)

As a result of examination of the production system for a beverage
5 extracting bag for improving the productivity, it has been found that the
fabrication of a tag needs a large number of kinds of raw materials and the
processing needs considerable time although the tag of the extracting bag is
merely an incidental small portion of the whole extracting bag. Through the
examination of the improvement of the productivity, a method in which an
10 entire tag is integrally formed by punching out a water-resistant sheet and the
punching process is completed in one step has been examined.

When a sheet or paper with a water-resistant property is thinly cut, the
resultant can be used for hanging an extracting bag for stirring and extracting
in hot water in the same manner as a conventional synthetic fiber yarn.
15 Furthermore, when the sheet or paper is provided with partial cut lines mostly
cut but merely slightly connected in a shape like a folded thread so that when
the sheet or paper is pulled, it can be easily torn into a thin thread-like shape,
and thus, a finger-gripping part of a tag, a thread-like part and a base part for
adhering the finger-gripping part on a bag can be all fabricated through one
20 step of a punching operation for paper with a small area. Moreover, when
paper with a thermal fusing property is used, the base part of the tag can be
easily thermally fused on an extracting bag with a thermal fusing property.

Furthermore, in order to achieve a resource-recycled product in
consideration of environmental problems, an extracting bag having a filtration
25 property and made of polymethyl lactide (polymer of lactic acid) fiber or multi

fiber obtained through lactic acid fermentation of corn starch, polymerization of the resultant fermentation product and spinning of the resultant polymer, and a tag formed by punching out a non-woven sheet with a thermal fusing property are used. Accordingly, a beverage extracting bag that can be completely
5 decomposed by microorganism in soil after the use is provided. On the basis of these findings, the present invention was achieved.

Specifically, the beverage extracting bag 1 includes an extracting bag 2 and a tag 3, and the extracting bag 2 is made of a sheet with a filtration property, with a material for a beverage enclosed therein, the tag 3 is integrally
10 formed by punching out a sheet with a water-resistant property, and includes a finger-gripping part 4 provided at a tip, a thread-like part 5 folded or collected in a curve shape for linking the tag 3 with the extracting bag 2, and a tag base part 6 for adhering an end of the thread-like part 5 on the bag 2, in use of the beverage extracting bag 1, when the finger-gripping part 4 provided at the tip of
15 the tag is drawn, the thread-like part of the tag folded or collected in a curve shape extends in a thread-like shape because partial cut lines 7 previously provided therein are cut, so that the extracting bag 2 is hung with the thread-like part 5, for preparing a beverage by dipping and stirring the bag 2 in hot water. Herein, a partial cut line means a state where most of the
20 cross-section is cut but merely a small uncut portion remains so as to be easily cut when pulled.

In the beverage extracting bag according to Claim 1, the thread-like part 5 of the tag 3 folded or collected in a curve shape is in a substantially rectangular shape having a large number of parallel partial cut lines 7
25 extending along a lengthwise direction and small uncut portions 8 provided at

respective ends of the cut lines 7, and when the finger-gripping part 4 provided at the tip of the tag 3 is drawn, the folded thread-like part 5 is removed from a surface of the extracting bag 2 and extends in a thread-like shape, so that the extracting bag 2 adhered on the base part 6 of the tag is hung with the
5 thread-like part 5.

In the beverage extracting bag according to Claim 2, the thread-like part 5 of the tag 3 in the substantially rectangular shape folded or collected in a curve shape is plural in number, and the base part 6 of the tag for adhering the thread-like part 5 on the surface of the extracting bag 2 is also plural in
10 number.

In the beverage extracting bag according to Claim 1, the thread-like part 5 of the tag 3 folded or collected in a curve shape is composed of a large number of rings 10 having concentric partial cut lines 9 and small uncut portions 11 provided in diametrically symmetric positions, and when the
15 finger-gripping part 4 provided at the tip of the tag 3 is drawn, the large number of concentric rings 10 linked to one another through the uncut portions 11 are removed from the surface of the extracting bag 2 and extend so that the extracting bag 2 adhered on the base part 6 of the tag is hung with the large number of linked rings 10.

20 In the beverage extracting bag according to Claim 1, the thread-like part of the tag 3 folded or collected in a curve shape has a double helix structure 12, a circular finger-gripping part 13 of a tip of the tag is provided at a center of the helix structure, an end of the finger-gripping part 13 is linked with an end of the thread-like parts 5 and 5', and a peripheral end of the double
25 helix is linked with the extracting bag 2 on which tag base parts 15 and 15' are

adhered, and when the finger-gripping part 13 of the tip of the tag 3 is drawn, the thread-like parts 5 and 5' in the double helix shape are removed from the surface of the extracting bag 2 and extend in the shape of two threads, so that the extracting bag 2 adhered on the base parts 15 and 15' of the tag is hung
5 with the thread-like parts 5 and 5'.

In the beverage extracting bag according to any of Claims 1 through 5, the bag 2 is a tetra-pack 16 made of a sheet with a filtration property.

In the beverage extracting bag according to any of Claims 1 through 6, a beverage extracting tetra-pack 16 is obtained by linearly fusing/cutting at line
10 20 of a slender envelope-shaped sheet 17 having filtration property, in a direction at right angled to a lengthwise direction at given intervals and then said enveloped-shaped sheet is transformed into a tetra-pack 16 by adjacent fusing/cutting line 19 which is arranged mutually perpendicular at given intervals between line 19 and 20, during which a raw material for a beverage is
15 enclosed therein. The tag 3 is provided on substantially any apex of the tetra-pack 16, on substantially a center of an edge line or on a center of any triangular face. Then the tag 3 includes the thread-like part 5 for linking the finger-gripping part 4 with the tetra-pack 16, folded or collected in a curve shape and the base part 6 of the tag for adhering the end of the thread-like part
20 5 on a surface of the tetra-pack 16. In use of the beverage extracting tetra-pack 16, when the finger-gripping part 4 of the tag is drawn, partial cut lines 7 previously provided in the thread-like part of the tag folded or collected in a curve shape are cut and the thread-like part 5 of the tag 3 extends, so that the tetra-pack 16 is hung with the substantial apex or the triangular face of the
25 tetra-pack where the tag is provided facing upward, for preparing the beverage

by dipping and stirring the tetra-pack 16 in hot water.

In the beverage extracting bag according to any of Claims 1 through 7, the extracting bag 2 and the tag 3 included in the beverage extracting bag 1 are an extracting bag 2 with a filtration property and a thermal fusing property
5 made of polymethyl lactide (polymer of lactic acid) fiber or multi fiber thereof obtained through lactic acid fermentation of corn starch, polymerization of a resultant fermentation product and spinning of a resultant polymer, and a tag 3 made of a non-woven sheet with a water-resistant property and a thermal
10 fusing property, and both have a characteristic to be completely decomposed by microorganism in soil after use. It is noted that the non-woven sheet used as the material for the tag includes paper obtained from polymethyl lactide fiber by a paper making machine.

Furthermore a gauzed fabric with a high filtration property made of the polymethyl lactide fiber, a variety of fabrics, non-woven fabrics and the like
15 with a filtration property can be used as the material for the extracting bag 2 used in this invention, and fabrics, non-woven fabrics and the like of a variety of thermoplastic polymers such as polypropylene, polyethylene, polyester and
20 polyamide can be used. In particular, a non-woven sheet including super fine fiber is suitably used as a beverage extracting filter. Also with respect to the material for the tag 3, any sheet with a water-resistant property can be used, and a thermoplastic polymer is preferably used because it has high processability in thermal fusing with the extracting bag. Accordingly, a sheet or non-woven fabric of any of the aforementioned various thermoplastic
25 polymers such as polypropylene, polyethylene, polyester and polyamide can be used.

The extracting bag 2 of this invention is used with a material of a beverage enclosed therein. Examples of the beverage are a variety of beverages such as black tea, green tea, oolong tea, barley tea, tang tea, coffee and cocoa. In consideration of the structure and the extracting characteristic
5 of the extracting bag, teas such as black tea and green tea are more preferred.

(Effects of the Invention)

A tag of a beverage extracting bag includes three parts, that is, a finger-gripping part provided at the tip of the tag, a thread-like part for linking
10 the finger-gripping part with the bag, and a tag base part for adhering the end of the thread-like part on the bag. According to this invention, the whole tag including these three parts can be integrally fabricated by punching out a sheet with a water-resistant property, and the fabrication is completed in one operation. Therefore, the productivity of the beverage extracting bag can be
15 remarkably improved.

Moreover, for developing a resource-recycling type product in consideration of harmony with environment, an extracting bag having a filtration property and made of polymethyl lactide (polymer of lactic acid) fiber obtained through lactic acid fermentation of corn starch, polymerization of the
20 resultant fermentation product and spinning of the resultant polymer, and a tag made of a non-woven sheet of the polymethyl lactide (polymer of lactic acid) fiber with a thermal fusing property are used. In this manner, a beverage extracting bag that can be completely decomposed by microorganism in soil after use can be fabricated.

Brief Description of Drawings

FIG. 1 is a front view of one embodiment of a beverage extracting bag of this invention.

FIG. 2 is a perspective view of the beverage extracting bag of the invention in a hung state.

FIG. 3 is a front view of another embodiment of the beverage extracting bag of the invention.

FIG. 4 is a front view of another embodiment of the beverage extracting bag of the invention.

FIG. 5 is a front view of another embodiment of the beverage extracting bag of the invention.

FIG. 6 is a front view of a material sheet for a beverage extracting tetra-pack of this invention.

FIG. 7 is a perspective view of the beverage extracting tetra-pack of this invention in a hung state.

Description of Reference Numerals

- | | | |
|----|-------|--------------------------|
| | 1 | beverage extracting bag |
| | 2 | extracting bag |
| 20 | 3 | tag |
| | 4 | tag finger-gripping part |
| | 5, 5' | tag thread-like part |
| | 6, 6' | tag base part |
| | 7 | partial cut line |
| 25 | 8 | uncut small portion |

- 9 concentric partial cut line
- 10 ring
- 11 concentric uncut small portion
- 12 double helix structure
- 5 13 circular tag finger-gripping part
- 14, 14' portion of circular tag finger-gripping part connected to
thread-like part
- 15, 15' base part of thread-like part with double helix structure
- 16 tetra-pack
- 10 17 envelope-shaped sheet
- 18 edge of envelope-shaped sheet
- 19 fuse/cut line of envelope-shaped sheet
- 20 fuse/cut line of envelope-shaped sheet to be arranged
perpendicular to the adjacent fuse/cut line 19, at given intervals
- 15 between line 19 and 20

Preferred Embodiments

The present invention will now be described in more detail in embodiments.

20 (Embodiment 1)

FIG. 1 is a front view of a beverage extracting bag according to an embodiment of the invention. As shown in FIG. 1, the beverage extracting bag 1 includes an extracting bag 2 enclosing a material of a beverage and a tag 3. The material for the extracting bag 2 is a gauzed fabric with a high filtration
25 property made of polymethyl lactide (polymer of lactic acid) fiber. Since the

polymethyl lactide fiber has a thermal fusing property, a fusion/adhesion method by supersonic wave treatment can be employed for forming the bag from the gauzed fabric and for sealing the bag after enclosing the material of the beverage, and hence, high productivity is attained.

5 As shown in FIG. 3, the tag 3 is composed of a finger-gripping part 4 provided at the tip, a thread-like part 5 folded or collected in a curve shape for linking the tag with the extracting bag, and a tag base part 6 for adhering the end of the thread-like part on the surface of the bag 2. In most cases, the thread-like part provided in the middle and the tag base part are generally
10 made of different materials, but according to this invention, these parts are formed by an integral formation method in which a non-woven sheet with a water-resistant property made of one single material, that is, multi fiber of polymethyl lactide (polymer of lactic acid), is punched out. Since the non-woven sheet made of the polymethyl lactide fiber has a thermal fusing
15 property, the tag base part 6 can be thermally fused on the extracting bag as shown in the drawing. Since the fabrication of the beverage extracting bag is completed in this thermal fusion process, this can improve the productivity of the beverage extracting bag together with the integral formation of the tag.

The thread-like part 5 for linking the finger-gripping part 4 provided at
20 the tip of the tag with the tag base part 6 is, as shown in the drawing, in a substantially rectangular shape having a large number of parallel partial cut lines 7 extending along the lengthwise direction and small uncut portions 8 alternately provided at the respective ends of the cut lines 7. Also, the folded thread-like part 5 may be partially fused on the bag so that it can be easily
25 removed from the extracting bag 2 when pulled. When the finger-gripping

part 4 provided at the tip of the tag 3 is drawn, the folded thread-like part 5 is removed from the surface of the bag 2 and extends in the shape of one zigzag thread, and the bag 2 adhered on the tag base part 6 is hung with the thread-like part 5. FIG. 2 is a perspective view of this state.

5 The non-woven sheet made of the polymethyl lactide (polymer of lactic acid) fiber used for the tag has resistance to water and hot water, and therefore, when the finger-gripping part 4 provided at the tip of the tag is held to place the bag in a cup and hot water is poured into the cup or when the bag is hung to be dipped and stirred in hot water, the beverage is prepared. At this point,
10 owing to the elasticity of the thread-like part extending in a zigzag manner, an effect to further accelerate the stirring and the extraction with the bag can be attained. In addition, the material for the extracting bag 2 used in this invention can be, apart from the aforementioned gauzed fabric with a high filtration property made of the polymethyl lactide fiber, any of a variety of
15 fabrics, non-woven fabrics and the like with a filtration property, and any of fabrics, non-woven fabrics and the like of a variety of thermoplastic polymers such as polypropylene, polyethylene, polyester and polyamide can be used. Furthermore, any sheet with a water-resistant property can be used as the material for the tag 3, and a sheet, non-woven fabric or the like of any of the
20 aforementioned thermoplastic polymers such as polypropylene, polyethylene, polyester and polyamide can be used.

(Embodiment 2)

FIG. 3 is a front view of another embodiment of the beverage extracting bag of this invention. On the surface of an extracting bag 2, two thread-like
25 parts of a tag 3 folded substantially in a rectangular shape are provided.

Furthermore, tag base parts 6 and 6' for adhering the ends of the thread-like parts 5 and 5' on the surface of the extracting bag 2 are also provided in two portions on right and left ends of a finger-gripping part. As shown in the drawing, the two tag base parts 6 and 6' are adhered on upper end portions of the extracting bag 2 disposed in substantially right and left ends. The rest of the structure is similar to that of Embodiment 1. Also, the materials for the extracting bag and the tag are substantially the same as those described in Embodiment 1.

In this embodiment, the two tag base parts 6 and 6' may be adhered on front and rear faces of the extracting bag 2 at substantially the centers on the upper end portions. Furthermore, since the tag is fabricated by the punching integral formation method, the finger-gripping part may be formed in a character shape with a high design property as shown in FIG. 2. When the ends of the thread-like parts for linking the finger-gripping part of the tag and the bag are thus held in two portions, complicated movement like seesaw movement can be made in dipping and stirring the bag 2 in hot water, and therefore, the function of the finger-gripping part and the effect of the character design together also improves comfortableness in drinking the beverage.

(Embodiment 3)

FIG. 4 is a front view of another embodiment of the beverage extracting bag of this invention. A thread-like part 5 of a tag 3 collected in a curve shape is formed as a large number of rings 10 provided with concentric partial cut lines 9, and small uncut portions 11 are alternately provided in diametrically symmetric positions. When a finger-gripping part 4 provided at the tip of the tag 3 is drawn, the many rings 10 mutually linked through the uncut portions

11 are removed from the surface of the bag 2 and extend. Therefore, the bag 2
adhered on a tag base part 6 is hung with the many concentric rings 10
mutually linked. The rest of the structure is substantially the same as that of
Embodiment 1. Also, the materials for the extracting bag and the tag are the
5 same as those described in Embodiment 1.

(Embodiment 4)

FIG. 5 is a front view of another embodiment of the beverage extracting
bag of this invention. Thread-like parts 5 and 5' of a tag 3 collected in a curve
shape are formed as double helixes 5 and 5' extending from a central circle.
10 The central circle corresponds to a finger-gripping part 13 of the tag 3, and two
small rectangles or trapezoids provided at the outer ends of the double helixes
correspond to tag base parts 15 and 15' to be adhered on an extracting bag 2.
When the finger-gripping part 13 of the circular tag 3 is drawn, the thread-like
parts 5 and 5' formed as the double helixes are removed from the surface of the
15 bag 2 and extend in the shape of a slur, and the extracting bag 2 is hung with
the two thread-like parts 5 and 5'. The rest of the structure is substantially
the same as that of Embodiment 1. Also, the materials for the extracting bag
and the tag are the same as those described in Embodiment 1.

The thread-like part for linking the finger-gripping part of the tag with
20 the extracting bag 2 is in a zigzag shape in Embodiments 1 and 2, and
differently, it is in a gentle slur shape as shown in the drawing in this
embodiment. Alternatively, the thread-like part 5 of the tag 3 collected in a
curve shape may be formed as a single helix. In this case, a finger-gripping
part 4 of the tag 3 and the extracting bag 2 are linked through the thread-like
25 part 5 in the shape of a single gentle slur.

(Embodiment 5)

As a material for a tetra-pack 16, a slender envelope-shaped material sheet 17 with a filtration property made of polymethyl lactide (polymer of lactic acid) fiber as shown in FIG. 6 is used. A base part 6 of a tag 3 having the same
5 structure as the tag used in Embodiment 1 is adhered at the edge of the envelope shown in the drawing, and specifically, on a substantially center point 18 between fuse/cut lines 19 and 20. The tag 3 includes a thread-like part 5 folded in a substantially rectangular shape and the base part 6.

Next, the envelope is fused and cut in a position of a broken line 19 in a
10 direction at right angle to the lengthwise direction at given intervals, and packs are formed so that the adjacent fuse cut lines 20 is arranged mutually perpendicular to line 19 at given intervals between between line 19 and 20. During this formation, a material for a beverage is enclosed in the envelope. Through this processing, a tetra-pack 16 in a substantially rectangular
15 tetrahedron shape enclosing the material for the beverage is obtained.

In using the beverage extracting tetra-pack 16, when the finger-gripping part 4 of the tag is drawn, partial cut lines 7 previously provided within a folded tag thread-like part 5 are cut and the thread-like part 5 extends, and hence, the tetra-pack 16 is hung with its triangle face where the tag is provided
20 facing upward and with an apex of a triangular pyramid facing downward. At this point, the tag base part 6 is provided at substantially the center of the top face of the tetra-pack. FIG. 7 shows a perspective view of the tetra-pack 16 placed in this state.

When hot water is poured with the tetra-pack 16 hung within a cup or
25 when the tetra-pack 16 is dipped and stirred in hot water, the beverage is

prepared. In the case where the tag base part 6 of the tetra-pack is provided on one end of the fuse/cut line 19 or 20, or provided on a portion in the middle of these lines, it is hung with its apex facing upward or with one horizontal edge facing upward. Such modifications can be appropriately selected in accordance
5 with the kind of beverage or the use situation.

Industrial Applicability

In a beverage extracting bag of this invention, a tag including a finger-gripping part, a thread-like part and a base part to be adhered on the
10 bag is fabricated by an integral formation method in which a sheet with a thermal fusing property is punched out, and the productivity can be improved also because of the thermal fusing property. Furthermore, as materials for the extracting bag and the tag, a fabric or non-woven sheet made of polymethyl lactide (polymer of lactic acid) fiber or multi fiber obtained through lactic acid
15 fermentation of corn starch, polymerization of the resultant fermentation product and spinning of the resultant polymer is used. Therefore, it is a resource-recycling type product that can be completely decomposed by microorganism in soil after use.

Claims

1. A beverage extracting bag (1) comprising an extracting bag (2) and a tag (3),

wherein said extracting bag (2) is made of a sheet with a filtration
5 property, with a material for a beverage enclosed therein,

said tag (3) is integrally formed by punching out a sheet with a water-resistant property, and includes a finger-gripping part (4) provided at a tip, a thread-like part (5) folded or collected in a curve shape for linking said tag
(3) with said extracting bag (2), and a tag base part (6) for adhering an end of
10 said thread-like part (5) on said bag (2),

in use of the beverage extracting bag (1), when said finger-gripping part (4) provided at the tip of said tag is drawn, said thread-like part of said tag folded or collected in a curve shape extends in a thread-like shape because partial cut lines (7) previously provided therein are cut, so that said extracting
15 bag (2) is hung with said thread-like part (5), for preparing a beverage by dipping and stirring said bag (2) in hot water.

2. The beverage extracting bag according to Claim 1,

wherein said thread-like part (5) of said tag (3) folded or collected in a curve shape is in a substantially rectangular shape having a large number of
20 parallel partial cut lines (7) extending along a lengthwise direction and small uncut portions (8) provided at respective ends of said cut lines (7), and

when said finger-gripping part (4) provided at the tip of said tag (3) is drawn, said folded thread-like part (5) is removed from a surface of said extracting bag (2) and extends in a thread-like shape, so that said extracting
25 bag (2) adhered on said base part (6) of said tag is hung with said thread-like

part (5).

3. The beverage extracting bag according to Claim 2,

wherein said thread-like part (5) of said tag (3) in the substantially rectangular shape folded or collected in a curve shape is plural in number, and
5 said base part (6) of said tag for adhering said thread-like part (5) on the surface of said extracting bag (2) is also plural in number.

4. The beverage extracting bag according to Claim 1,

wherein said thread-like part (5) of said tag (3) folded or collected in a curve shape is composed of a large number of rings (10) having concentric
10 partial cut lines (9) and small uncut portions (11) provided in diametrically symmetric positions, and

when said finger-gripping part (4) provided at the tip of said tag (3) is drawn, said large number of concentric rings (10) linked to one another through said uncut portions (11) are removed from the surface of said extracting bag (2)
15 and extend so that said extracting bag (2) adhered on said base part (6) of said tag is hung with said large number of linked rings (10).

5. The beverage extracting bag according to Claim 1,

wherein said thread-like part of said tag (3) folded or collected in a curve shape has a single or double helix structure (12), a circular
20 finger-gripping part (13) of a tip of said tag is provided at a center of said helix structure, an end of said finger-gripping part (13) is linked with an end of said thread-like part (5), and a peripheral end of said helix is linked with said extracting bag (2) on which a tag base part (15) is adhered, and

when said finger-gripping part (13) of the tip of said tag (3) is drawn,
25 said thread-like part (5) in the helix shape is removed from the surface of said

extracting bag (2) and extends in the shape of a thread, so that said extracting bag (2) adhered on said base part (15) of said tag is hung with said thread-like part (5).

6. The beverage extracting bag according to any of Claims 1 through 5,
5 wherein said bag (2) is a tetra-pack (16) made of a sheet with a filtration property.

7. The beverage extracting bag according to any of Claims 1 through 6,
wherein a beverage extracting tetra-pack (16) is obtained by linearly
fusing/cutting a slender envelope-shaped sheet (17) having a filtration property
10 at line (20), in a direction at right angle to a lengthwise direction, and then said envelope-shaped sheet is transformed into a tetra-pack (16) by linearly fusing/cutting adjacent lines (19) which is arranged mutually perpendicular between line (19) and (20) at given intervals, during which a raw material for a beverage is enclosed therein.

15 said tag (3) is provided on substantially any apex of said tetra-pack (16), on substantially a center of an edge line or on a center of any triangular face, and said tag (3) includes said thread-like part (5) for linking said finger-gripping part (4) with said tetra-pack (16) folded or collected in a curve shape and said base part (6) of said tag for adhering the end of said thread-like
20 part (5) on a surface of said tetra-pack (16), and

in use of said beverage extracting tetra-pack (16), when said finger-gripping part (4) of said tag is drawn, partial cut lines (7) previously provided in said thread-like part of said tag folded or collected in a curve shape are cut and said thread-like part (5) of said tag (3) extends, so that said
25 tetra-pack (16) is hung with the substantial apex or the triangular face of said

tetra-pack where said tag is provided facing upward, for preparing the beverage by dipping and stirring said tetra-pack (16) in hot water.

8. The beverage extracting bag according to any of Claims 1 through 7, wherein said extracting bag (2) and said tag (3) included in the beverage
- 5 extracting bag (1) are an extracting bag (2) with a filtration property and a thermal fusing property made of polymethyl lactide (polymer of lactic acid) fiber or multi fiber thereof obtained through lactic acid fermentation of corn starch, polymerization of a resultant fermentationn product and spinning of a resultant
- 10 polymer, and a tag (3) made of a non-woven sheet with a water-resistant property and a thermal fusing property, and both have a characteristic to be completely decomposed by microorganism in soil after use.