(12) UK Patent Application (19) GB (11) 2 081 065

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- (21) Application No 8124160
- (22) Date of filing 7 Aug 1981
- (30) Priority data
- (31) 55/109477 56/004962
- (32) 9 Aug 1980 19 Jan 1981
- (33) Japan (JP)
- (43) Application published 17 Feb 1982
- (51) INT CL³
 - A23F 3/18 5/26 5/44
- (52) Domestic classification **A2B** 201 202 203 331 332 411 414 616 617 622 660 701 AJC ECB
- (56) Documents cited GB 1532747 GB 532853
- (58) Field of search A2B
- (71) Applicants
 Sato Shokuhin Kogyo
 Kabushiki Kaisha,
 1268 Aza Shinmachi,
 Oaza Komaki,
 Komaki-shi, Aichi-ken,
 Japan
- (72) Inventors
 Jinichi Sato
 Toshiro Kurusu
 Naoyosh Kondo
 Makoto Tamaki
- (74) Agents
 Fitzpatricks,
 48 St. Vincent Street,
 Glasgow, G2 5TT

(54) Process for preparation of instant beverages

(57) Tea leaves, roasted coffee or cacao beans, or roasted cereals e.g. rice or barley are extracted with a cyclic dextrin-containing liquid and this extract is dried to obtain an instant beverage. According to this process, valuable components of tea leaves, roasted coffee beans or the like are effectively extracted by the cyclic dextrin-containing liquid, and extracted soluble and aromatic components are effectively protected by the cyclic dextrin when the extract is dried to form an instant beverage. The obtained instant beverage such as instant tea or instant coffee has excellent fragrance and flavor. The cyclic dextrin may be used in conjunction with acyclic dextrin and/or ethanol, which may be in the form of brandy, whisky, rum or vodka.

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SPECIFICATION

Process for preparation of instant beverages

The present invention relates to a process for the preparation of instant beverages such as instant green tea, instant black tea and instant coffee. More particularly, the present invention relates to a process for the preparation of instant beverages in 10 which soluble flavor and aromatic components present in tea leaves, roasted coffee beans, roasted beans or roasted cereals are extracted stably and effectively and the extract is dried without deterioration or evaporation of these soluble flavor and 15 aromatic components to obtain an instant beverage which has excellent flavor and fragrance comparable to those of green tea, black tea or coffee obtained by an ordinary method of making tea or coffee.

Ordinarily, tea is obtained by extracting tea leaves 20 with hot water and the obtained hot water extract is drunk. This hot water extract contains as valuable components amino acids, carbohydrates, theine, saponin, caffeine and aromatic components. Tea leaves are ordinarily extracted with warm or hot 25 water maintained at a temperature higher than 60°C in an amount 30 to 100 times the amount of the tea leaves for about 30 seconds to about 5 minutes. though the extracting conditions differ to some extent, and the resulting extract is drunk.

Even if the same tea leaves are used, the composi-30 tion of the components to be extracted differs according to the tea-making method, that is, depending on the temperature of hot water, the extraction time and the amount of hot water to be added to tea 35 leaves, and also the fragrance is greatly influenced by these factors. Furthermore, when the obtained hot water extract is allowed to stand, the flavor and color change moment by moment.

Conventional processes for the preparation of 40 instant tea beverages involve various problems in connection with the manner of extraction of tea leaves, deterioration of the obtained extracts and degradation of flavor and fragrance or evaporation of valuable and aromatic components during the 45 drying step. Accordingly, it has been very difficult to prepare instant tea beverages excellent in the quality economically advantageously.

In case of regular coffee usually drunk (regular coffee), water is boiled in a coffee pot in advance, and 50 ground roasted coffee beans are directly put in boiling water (the standard amount is 10 g of ground roasted coffee beans per 100 ml of boiling water) and are boiled in boiling water to effect extraction or are similarly extracted by using a percolator or the *55 like. The obtained extract contains caffeine, tannic acid, saccharides, fats, proteins and various aromatic components and it has a good fragrance inherent to coffee and a peculiar complicated flavor inclusive of a bitter taste, an astringent taste and an acid taste. 60 When roasted coffee beans are ground and then allowed to stand in air, they are readily oxidized to degrade the fragrance, and when tepid water is used for extraction, the contact time for extraction of roasted coffee beans should be prolonged. Further-

65 more, if the boiling time is too long or the extract is

allowed to stand for a long time, the fragrance and flavor are degraded. Accordingly, even in case of regular coffee, the method of making coffee is very difficult, and it is very difficult to always obtain cof-70 fee rich in flavor and fragrance.

Coffee extract concentrates and coffee extract powders have heretofore been manufactured on an industrial scale, and instant coffee beverages which can instantly be drunk by dissolving them in hot 75 water or cold water have been prepared and marketed. Ordinarily, these instant coffee beverages are prepared according to a process comprising charging ground roasted coffee beans in an extraction tank, extracting the beans with hot water or boiling water, and subjecting the extract directly or after 80 concentration such as reduced pressure concentration or freeze concentration to such a drying treatment as spray drying, vacuum drying or freeze drying. Instant coffee beverages prepared according to 85 such conventional process contain even extracted components which cannot ordinarily be drunk, though the amounts of these components differ to some extent according to the extraction conditions such as the extraction temperature and time, the 90 concentration conditions and the drying conditions. Furthermore, since the extract is exposed to high temperatures for a long time during the preparation, the flavor and fragrance are degraded by evaporation and oxidative decomposition of aromatic com-95 ponents, and a delicate aroma inherent to coffee is lost and the product comes to have an excessive scorching taste. In short, the obtained beverage is far apart from coffee in both the flavor and fragrance.

We made researches with a view to overcoming 100 the defect of reduction of the flavor and fragrance by loss of aromatic components in conventional instant beverages such as instant green tea, instant black tea and instant coffee, and we found that when tea leaves, roasted coffee beans or roasted beans or 105 cereals are extracted with a liquid containing cyclic dextrin (schardinger dextrin), soluble components and aromatic components are extracted at a high efficiency, and there are obtained excellent instant beverages in which these components are effec-110 tively protected and deterioration or evaporation of these components does not occur at the drying step or during storage. We have now completed the present invention based on this finding.

More specifically, in accordance with the present 115 invention, there is provided a process for the preparation of instant beverages, which comprises extracting one member selected from tea leaves, roasted coffee beans, roasted beans and roasted cereals with a liquid containing a cyclic dextrin.

When extraction is carried out by using a cyclic 120 dextrin-containing liquid according to the present invention, the liquid intrudes into the texture of tea leaves or coffee beans to selectively leach out valuable components and these valuable components 125 can be obtained in such a protected state that deterioration is effectively prevented. It is believed that cyclic dextrin dissolved in the extracting liquid exerts a function of partially including or associating soluble and aromatic components in the peripheral portion of cyclic dextrin in the dissolved state revers-

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ibly or irreversibly.

Accordingly, if the so obtained extract containing soluble and aromatic components of tea leaves, coffee beans or the like which are protected by cyclic dextrin is dried at a temperature as low as possible by freeze drying, vacuum drying or spray drying, an instant beverage having good flavor and fragrance comparable to those of green tea, black tea or coffee obtained by the ordinary method of making tea or 10 coffee.

The present invention will now be described in detail.

Cyclic dextrin that is used in the present invention is obtained by a method comprising reacting starch 15 with a culture liquid of Bacillus macerans or with an enzyme liquid formed therefrom, and commercially available products manufactured by this method or other appropriate method can be utilized in the present invention. Ordinarily, a product obtained by 20 liquefying of gelatinizing starch, reacting the liquefied or gelatinized starch with a cyclic oligosacchardide-forming enzyme or purifying the resulting α -, β -, γ -cyclodextrin and other cyclodextrin or a mixture thereof or by liquefying or gelatinizing 25 starch, reacting the liquefied or gelatinized starch with a cyclic oligosaccharide-forming enzyme, separating the obtained mixture of cyclic dextrin and acyclic dextrin and purifying the separated mixture optionally after hydrolyzing the dextrin mixture with 30 an enzyme or the like under such conditions as not causing decomposition of cyclic dextrin.

When a mixture of cyclic dextrin and acyclic dextrin is used, it is preferred that the ratio of cyclic dextrin be at least 10% of the mixture and the average

35 degree of polymerization of the acyclic dextrin portion be 3 to 40. However, these values are not critical, but other values may optionally be chosen according to need. The content of cyclic dextrin (or a mixture of cyclic dextrin and acyclic dextrin) in the extracted

40 components is ordinarily at least 0.2% and preferably at least 1%, though the content is not particularly critical.

In accordance with one preferred embodiment of the present invention, an ethyl alcohol-containing liquid is incorporated into the cyclic dextrincontaining liquid. The ethyl alcohol-containing liquid used is selected from ethyl alcohol and spirits such as vodka, whisky, brandy and rum. The concentration of ethyl alcohol in the cyclic dextrin-containing liquid is preferably 10 to 60%. If the concentration of ethyl alcohol is higher than 60%, unsavory components or peculiar aromatic components are extracted, and if the concentration of ethyl alcohol is lower than 10%, the intended effect by the use of the ethyl alcohol-containing extraction liquid cannot be attained.

The cyclic dextrin-containing liquid that is used in the present invention contains 0.2 to 20% of cyclic dextrin.

60 The cyclic dextrin-containing liquid is used in an amount 2 to 30 times, preferably 3 to 10 times, the amount of tea leaves, roasted coffee beans or roasted beans or cereals on the weight basis. Extraction can be carried out batchwise or in a continuous 65 manner. In case of tea leaves, the extraction temper-

ature is ordinarily 10 to 90°C, and an appropriate temperature not causing dissolution of undesirable components is chosen according to the kind of tea. In case of coffee, the extraction temperature is ordinarily 50 to 90°C, and in some case, it is preferred that extraction be carried out at 10 to 50°C for a long time. Since deterioration of the extracted components is not caused in the present invention, a concentrated extract can be obtained by recycling the repeatedly.

When a non-modification smell is left in the extract obtained by low temperature extraction because heating is not effected, this smell can be removed by 80 heating the extract at an ordinary extraction temperature of 60 to 90℃ for a short time.

The so obtained extract is packed in a can as it is or after sugar or the like necessary for a beverage is added to the extract, and the canned extract is mar85 keted. Aromatic components are not deteriorated during storage and a high quality can be maintained.

Furthermore, according to the present invention, the obtained extract is dried at a temperature as low as possible by spray drying, vacuum drying or freeze drying, whereby a powder having a good quality and a high storage stability is obtained without no substantial deterioration by evaporation due to drying.

In the present invention, the aromatic components can be protected effectively by cyclic dextrin during drying and after drying. Accordingly, excellent instant green tea, instant black tea, instant coffee and other instant beverages having good fragrance and flavor can be obtained.

As the tea that is used in the present invention, 100 there can be mentioned, for example, nonfermented teas (green teas) such as green teas of middle grade (sen-cha), kettle tea, coarse green tea (ban-cha), roasted green tea (hoji-cha) and refined green tea (gyokuro), semi-fermented teas such as 105 oolong tea and pouchung tea, fermented tea such as black tea, and tea-like materials such as leaves of Chinese matrimony vine and mate. In the present invention, not only roasted coffee beans but also roasted cacao beans and other roasted beans, 110 roasted cereals such as roasted barley, rye and rice can be used. When these starting materials are extracted according to the process of the present invention and are subsequently dried according to need, there can be obtained instant beverages hav-115 ing good fragrance and flavor and high quality stabil-

ity.
The present invention will now be described in detail with reference to the following Examples that by no means limit the scope of the invention.

(A) In 10.5 l of warm water maintained at 65°C were immersed 1.5 Kg of sen-cha leaves for 3 minutes, and the green tea leaves were immediately cooled to 25°C and compressed to obtain 9 l of a squeeze liquid having a Brix value of 5.5°. This squeeze liquid was allowed to stand at 25°C for 30 minutes, and 0.2 Kg of powdery dextrin (having a DE value of 13) was incorporated and dissolved in 9l of the squeeze liquid and the liquid was spray-dried at a chamber temperature of 85°C to obtain 0.6 Kg of a powdered

tea extract (hereinafter referred to as "powdered tea extract A").

- (B) In the same manner as described in (A) above, 9 I of a squeeze liquid having a Brix value of 5.5° was prepared and allowed to stand at 25°C for 30 minutes. Then, 0.2 Kg of a cyclic dextrin-containing powder [comprising 20% of cyclic dextrin (consisting of 15%, 29% and 56% of α-, β- and γ-cyclodextrins), 3.6% of glucose, 11.1% of maltose and 65.3% of
- oligosaccharide] was incorporated and dissolved in the squeeze liquid, and the liquid was spray-dried under the same conditions as described in (A) above to obtain 0.6 Kg of a powdered tea extract (hereinafter referred to as "powdered tea extract B").
- 15 (C) In 10.51 of warm water maintained at 65°C was dissolved 0.2 Kg of the same cyclic dextrincontaining powder as used in (B) above, and 1.5 Kg of the same sen-cha leaves as used in (A) and (B) above were immersed in the liquid for 3 minutes.
- 20 The tea leaves were immediately cooled to 25°C and

compressed to obtain 9.1 l of a squeeze liquid having a Brix value of 7.5°. In the same manner as described in (A) above, the squeeze liquid was allowed to stand at 25°C for 30 minutes and spray-dried to obtain 0.6

25 Kg of a powdered tea extract (hereinafter referred to as "powdered tea extract C").

Each of the so-obtained powdered tea extracts was dissolved in warm water (80°C) in an amount of 1 g per 120 ml of warm water, and comparative

- 30 organoleptic tests were made on the flavor and the like by a panel of 10 experts. With respect to each item, 3 points were given to the best extract, 2 points were given to the second extract, and 1 point was given to the third extract. The obtained results are
- 35 shown in Table 1. From the test results shown in Table 1, it will readily be understood that the powdered tea extract C is excellent over the powdered tea extracts A and B in the fragrance, flavor and color

Table 1

Powdered Tea Extract A	emparative Organoleptic Fragrance 15 points (no sub- stantial fragrance but moldering smell)	c Test Results (Powder Flavor 16 points (strong bitter and astringent tastes)	ed Tea Extracts) Color of Water 16 points (reddish)
Powdered Tea Extract B	17 points (no substantial fragrance)	18 points (strong puckery taste)	20 points (dark brown)
Powdered Tea Extract C	28 points (good fragrance inherent to sen-cha)	26 points (well- balanced bitterness and puckery taste)	24 points (clear green inherent to sen-cha)

40 The total points of 10 experts are shown in Table 1 and a typical opinion is described in the parenthesized portion.

Example 2

A counter-current type extraction column equip-45 ped with a jacket was charged with 1200 g of ground green tea roasted to a deep degree (hoji-cha). Separately, an extracting liquid was prepared by dissolving 80 g of β -cyclodextrin in 3 l of warm water maintained at 60°C.

- 50 The above β-cyclodextrin-containing liquid was fed from the bottom to the top in the extraction column at a flow rate of 2.0 l/hr while maintaining the interior of the extraction column at 60°C. Subsequently, an appropriate amount of warm water
- maintained at 60°C was fed into the extraction column. An extract was obtained by collecting initial 3 l of the overflow liquid, and the extract was cooled to 20°C and stored in this state until the extract was transferred to the subsequent drying step.
- 60 Then, 130 g of a dextrin powder having a DE value of 13 was incorporated and dissolved in 3 l of the above extract (having a solid concentration of 12.3%), and the resulting liquid was spray-dried at a chamber temperature of 80°C by using a spray drier to obtain 500 g of a powdered roasted green tea.

In 100 ml of warm water maintained at 80°C was dissolved 1 g of the so-obtained powdered roasted green tea extract. The obtained tea had good fragrance and flavor which were not substantially differ-

- 70 ent from those of green tea obtained by using the starting ground roasted green tea according to the ordinary tea-making method. Example 3
- In 3250 I of water maintained at 30°C was dissolved 200 Kg of a cyclic dextrin-containing powder (comprising 30% of α-cyclodextrin, 13% of β-cyclodextrin, 7% of γ-cyclodextrin and 50% of dextrin), and 500 Kg of ground sen-cha leaves were immersed in the solution for 30 minutes and compressed by a compressing machine to obtain 2900 I of an extract having a Brix value of 11.8°. Then, 500 Kg of the same ground sen-cha leaves as used above were immersed in the obtained extract (maintained at 30°C) for 30 minutes and treated in the same manner as described above to obtain 2500 I of an extract having a Brix value of 17.0°.

Then, 2500 I of the obtained extract (having a solid concentration of 14.8%) was heated at 75°C for 30 seconds by using a plate-type heat exchanger and 90 was then cooled to 25°C.

The extract was spray-dried at a chamber temperature of 75°C by using a spray drier to obtain 370 Kg of a powdered sen-cha extract.

When 0.9 g of the so-obtained powdered sen-cha extract was dissolved in 100 ml of warm water, sencha was instantly formed very conveniently. If this powdered extract was dissolved in cold water, cold water-brewed sen-cha having a clear green tea color and excellent flavor and fragrance was obtained.

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Example 4

In 350 I of water maintained at 30°C was dissolved 27 Kg of a cyclic dextrin-containing powder (comprising 30% of α -cyclodextrin, 13% of β -cyclodextrin, 7% of γ -cyclodextrin and 50% of dextrin), and 50 Kg of black tea leaves were immersed in this solution at 30°C for 40 minutes and compressed to obtain 305 l of an extract having a Brix value of 10.4°. Then, 50 Kg of the same black tea leaves as used above were immersed in the obtained extract (maintained at 30°C) for 30 minutes at 30°C and treated in the same manner as described above to obtain 260 l of an extract having a Brix value of 14.0°.

The so-obtained extract was heated at 80°C for 60 15 seconds by using a plate-type heat exchanger and was then cooled to 25°C. The extract was treated by a centrifugal separator to remove opacity and obtain 255 I of a clear extract having a solid concentration of

20 The extract was spray-dried at a chamber temperature of 85°C by using a spray drier to obtain 30 Kg of a powdered black tea extract.

When 1.0 g of the so-obtained powdered black tea extract was dissolved in 100 ml of warm water, black tea having good fragrance and flavor not substantially different from those of black tea obtained by the ordinary black tea-making method was obtained. When the powdered extract was dissolved in cold water, there was instantly obtained tea having a 30 clear black tea color free of the creaming-down phenomenon.

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Example 5 (A) In 4 I of hot water maintained at 80°C were immersed 1 Kg of blended coffee beans (drip grind) 35 for 20 minutes, and the immersed beans were squeezed to obtain 3.4 Kg of a squeeze liquid having a Brix value of 8°. Then, 1 Kg of the same coffee beans were similarly extracted by using the obtained squeeze liquid to obtain 2.8 Kg of a squeeze liquid 40 having a Brix value of 16.6°. The squeeze liquid was clarified by a centrifugal separator. Then, 0.35 Kg of enzyme-modified dextrin (having an average degree of polymerization of 5.1) was incorporated and dissolved in 2.8 Kg of the obtained extract having a 45 solid concentration of 13.6%, and the liquid was spray-dried at a chamber temperature of 85°C by using a spray drier to obtain about 0.7 Kg of a pow-

"C.A"). 50 (B) In 2.8 Kg of an extract (having a solid concentration of 13.6%) prepared in the same manner as described in (A) above was incorporated and dissolved 0.35 Kg of a mixture comprising 50% of a cyclic dextrin (consisting of 60% of α -cyclodextrin, 26% of 55 β-cyclodextrin and 14% of γ-cyclodextrin) and 50% of acyclic dextrin having an average degree of polymerization of 25, and the liquid was spray-dried under the same conditions as described in (A) above to obtain about 0.7 Kg of a powdered coffee extract 60 (hereinafter referred to as "C.B").

dered coffee extract (hereinafter referred to as

(C) The same blended coffee beans (drip grind) as used in (A) above were extracted under the same conditions as described in (A) above by using an aqueous solution obtained by dissolving 0.35 Kg of 65 the same cyclic dextrin/acyclic dextrin mixture as

described in (B) above in 41 of hot water maintained at 80°C, and the obtained squeeze liquid was clarified by a centrifugal separator to obtain 3.2 Kg of an extract having a solid concentration of 22.2%. The 70 extract was spray-dried under the same conditions : as described in (A) above to obtain about 0.7 Kg of a powdered coffee extract (hereinafter referred to as "C.C").

Each of the so-obtained powdered coffee extracts 75 C.A, C.B and C.C was dissolved in hot water maintained at 80°C in an amount of 2 g per 100 ml of hot water, and organoleptic tests were carried out by 10 experts and the flavor and fragrance were collectively evaluated (3 points, 2 points and 1 point were given to the best coffee, second coffee and third coffee, respectively). It was found the total points of C.C, C.B and C.A were 30 points, 17 points and 13 points, respectively, and C.C was evaluated as best. C.C had a fresh mild fragrance not substantially different from the fragrance of regular coffee and was wellbalanced in the aromatic fragrance and flavor. On the other hand, C.A was substantially free of coffee fragrance and had a scorching smell and was inferior in the taste. C.B was slightly superior to C.A in the fragrance and flavor, but was much inferior to C.C. Example 6

Each of columns of a continuous counter-current extractor (comprising continuous 4 columns) equipped with a jacket was packed with 1 Kg of fully roasted, regular grind Columbia coffee beans, and the temperature of water circulated in the jacket was maintained at 20°C. Cyclic dextrin-containing liquid (aqueous solution formed by dissolving 1.25 parts of B-cyclodextrin in 100 parts of water) was fed under 100 pressure at a rate of 1.5 l/hr from the bottom to the top in the extraction column. As the extract, there was collected initial 6 l of the overflow liquid. The Brix value of the recovered extract was 34.2° and the solid concentration was 26%. The extract was cooled 105 below 0°C and carbon dioxide gas was blown into the extract to form bubbles. Then, the extract was frozen in a freezing chamber maintained at −30°C. The frozen extract was placed on a heating shelf and dried at a drying plate temperature lower 110 than 45°C under vacuum of less than 0.5 Torr by a vacuum freeze drier to obtain 1.5 Kg of a dried coffee extract. When 1.6 g of this dried coffee extract was dissolved in 100 ml of warm water, there was obtained water-brewed coffee which retained fresh 115 aromatic components of coffee beans having a low boiling point and had a light taste. Example 7

In 22 Kg of a whisky liquid having an alcohol content adjusted to 42% by weight was dissolved 4.4 Kg 120 of a cyclic dextrin-containing liquid (comprising 16%) of α -, β - and γ -cyclodextrins, 2.6% of glucose, 8.8% of maltose, 47.6% of oligosaccharides and 25% of water), and the solution was heated at 30°C and 10 y Kg of regular grind kilimanjaro coffee beans were 125 immersed in the solution for 2 hours. The immersed coffee beans were compressed to obtain 21.8 Kg of a squeeze liquid having a Brix value of 32.8°. The same coffee beans (10 Kg) as described above were similarly extracted by using the so-obtained squeeze 130 liquid, and the resulting squeeze liquid was clarified

by a centrifugal separator to obtain 17.3 Kg of an extract having Brix value of 39.8°, a solid concentration of 28.4% and an alcohol content of 29% by weight. The extraction residue (29.0 Kg) left after the 5 compression step was immersed for 10 minutes in a solution formed by dissolving 1 Kg of β -cyclodextrin powder in 40 Kg of warm water maintained at 80°C and compressed to obtain 33.5 Kg of a squeeze liquid having a Brix value of 11.5°, a solid concentra-10 tion of 9.6% and an alcohol content of 3.5%. The squeeze liquid was similarly clarified and the resulting extract was subjected to reduced pressure concentration at a liquid temperature lower than 65°C by using a reduced pressure concentrator to obtain 6 Kg 15 of a concentrated coffee extract having a Brix value of 60° and a solid concentration of 52.2%. This concentrated extract and 6.8 Kg of enzyme-treated dextrin (having an average degree of polymerization of 12) were added to 17.3 Kg of the above extract

20 obtained by using the whisky liquid, and the mixture was spray-dried at a chamber temperature of 75°C to obtain 19 Kg of a powdered coffee extract having an alcohol content of 22%. When 3 g of the powdered coffee extract was dissolved in 100 ml of warm
25 water, there was obtained whisky coffee having a

25 water, there was obtained whisky coffee having a rich aromatic fragrance.

Example 8

An extraction tank was charged with 200 Kg of ground blended coffee beans, and 10 Kg of 30 β-cyclodextrin was dissolved in 2000 I of hot water maintained at 80°C and the solution was added to the coffee beans. The mixture was stirred and extracted for 15 minutes. Dregs were separated by a continuous diaphragm type filter press, and the 35 obtained extract was clarified by a continuous centrifugal separator to obtain 1900 I of a coffee extract having a Brix value of 4°, which retained flavor and fragrance characteristics of the starting blend coffee beans and had a fresh aroma inherent to just-made 40 fresh coffee. The extract was free of a scorching smell (caramel smell) and had well-balanced coffee

flavor and fragrance.

Then, 100 Kg of sugar was incorporated and dissolved in 1900 I of the extract and the solution was packed in aluminum cans, and the canning operation was carried out according to customary procedures (sterilizing conditions: 120°C, 10 minutes) to obtain canned black coffee.

The flavor and fragrance of the canned black cof-50 fee were not different from those before the canning operation, and when this canned black coffee was stored for a long time, no change of the flavor and fragrance occurred and formation of dregs or other sediments was not observed.

- 55 CLAIMS
 - A process for the preparation of instant beverages, which comprises extracting one member selected from tea leaves, roasted coffee beans, roasted beans and roasted cereals with a liquid containing cyclic dextrin.
 - A process for the preparation of instant beverages, which comprises extracting one member selected from tea leaves, roasted coffee beans, roasted beans and roasted cereals with a liquid confostaining cyclic dextrin, and drying the extract.

- 3. A process according to claim 1 or 2, wherein the tea is selected from non-fermented teas such as sen-cha and hoji-cha, semi-fermented teas such as oolong tea and pouchung tea and fermented teas such as black tea.
- 4. A process according to claim 1 or 2, wherein the roasted bean or cereal is selected from roasted cacao bean, roasted barley and roasted rice.

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- A process according to claim 1 or 2, wherein
 the cyclic dextrin-containing liquid is a member selected from (a) a liquid containing cyclic dextrin,
 (b) a liquid containing cyclic dextrin and acyclic dextrin,
 (c) a liquid containing cyclic dextrin and ethyl alcohol and (d) a liquid containing cyclic dextrin,
 acyclic dextrin and ethyl alcohol.
 - 6. A process according to claim 2, wherein drying is carried out by freeze drying, vacuum drying or spray drying.
- A process according to claim 5, wherein the
 ethyl alcohol-containing liquid is a member selected from ethyl alcohol and spirits such as whisky, brandy, vodka and rum.

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