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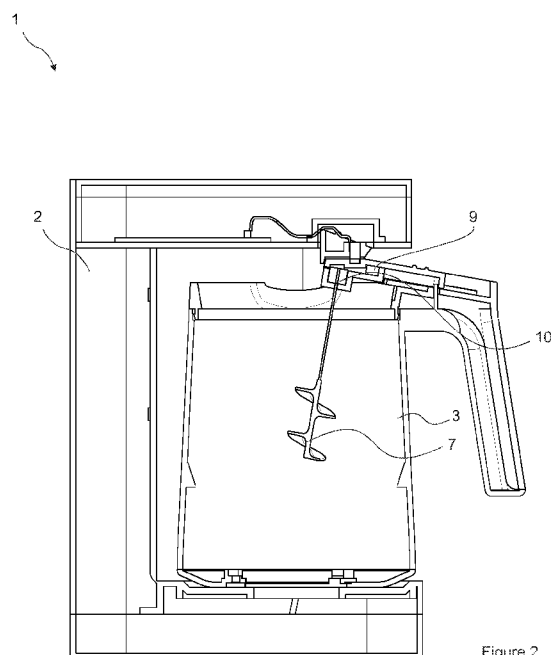


Figure 2

(57) Abstract: The present invention relates to a coffee maker (1) comprising a body (2); at least one coffee brewing pot (3) which is placed on the body (2) and wherein the coffee is brewed; a housing (4) which is provided on the body (2) and wherein the coffee brewing pot (3) is placed; a heater (5) which is provided in the housing (4) so as to be positioned under the coffee brewing pot (3); and a control unit (6) which is provided on the body (2) and which controls the coffee brewing process.

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A COFFEE MAKER COMPRISING A MIXER

The present invention relates to a coffee maker comprising a mixer.

In Turkish coffee makers, coffee is prepared by cooking the mixture of coffee and water. The characteristics of the brewing technique can change the consistency and taste of the coffee. Foam formation during brewing is also very important for Turkish coffee. Since Turkish coffee is not a homogeneous coffee due to its form, the brewing technique is of great importance. Premixing coffee with water increases the homogeneity and improves the texture of the coffee. Various Turkish coffee makers are known in the art, which enable coffee to be brewed at optimum temperature without burning. The use of various sensors is known, which ensure the foam density in accordance with the coffee's brewing technique. Thus, coffee makers are available, which automatically end the brewing process when the coffee is ready or only function as a heater. However, since Turkish coffee is insoluble in water due to its form, the problem of clumping occurs when it comes into contact with water. When the coffee is brewed without stirring, the clumps therein remain undissolved, causing user dissatisfaction.

In the state of the art Patent Document No. TR201109954, a coffee maker is disclosed, comprising a mixer which is provided on the body and which can perform mixing during the brewing process.

The aim of the present invention is the realization of a coffee maker which provides ease of use.

The coffee maker realized in order to attain the aim of the present invention, explicated in the first claim and the respective claims thereof, comprises a body; at least one brewing pot is placed into the body; a housing which is provided on the body; a heater which is provided on the body; and a control unit which is provided on the body and which controls the brewing process. The coffee brewing pot is placed into the housing. The heater is positioned under the coffee brewing pot. Thus, the coffee mixture placed in the coffee brewing pot is brewed.

The coffee maker of the present invention comprises at least one mixer which is disposed in the coffee brewing pot. By means of the mixer, the coffee and water mixture put into the coffee brewing pot is mixed, thus providing a more homogeneous brewing.

5 In an embodiment of the present invention, the coffee maker comprises a first connector which is provided on the body, a second connector which is provided on the coffee brewing pot, and a mixer which is energized by a motor. When the first connector and the second connector join, communication regarding the brewing process is provided by means of the control unit and the mixer is energized by the motor. Thus, the mixing process is performed.

10 In an embodiment of the present invention, the coffee maker comprises a sliding lid which is provided on the coffee brewing pot. The second connector is provided on the sliding lid. Thus, the second connector can be moved together with the sliding lid.

15 In an embodiment of the present invention, the coffee maker comprises the first connector and the second connector which come into contact with each other as the sliding lid is slid. When the first connector and the second connector come into contact with each other, the brewing information is received and the mixer is operated. Thus, a homogeneous coffee mixture is obtained and the quality of the brewed coffee is increased.

20 In another embodiment of the present invention, the coffee maker comprises a connector housing which is disposed on the body and wherein the first connector is placed. The first connector is positioned in the connector housing, and thus the first connector is protected.

25 In an embodiment of the present invention, the coffee maker comprises a first position where the first connector and the second connector do not come into contact with each other and the brewing process is not performed when the coffee brewing pot is placed into the housing, a second position where the first connector and the second connector come into contact with each other, and the control unit which controls the first position and the second position. In the first position, the mixing process and the brewing

process are not performed. In the second position, the first connector and the second connector come into contact, the brewing process is performed.

In an embodiment of the present invention, the coffee maker comprises an additional control unit which is provided on the coffee brewing pot and which controls the mixer,
5 an energy member which enables the mixer to be energized, and a control member. When the control member is triggered by the user, the mixer is operated by means of the energy member.

By means of the present invention, a coffee maker is realized, comprising a mixer which is provided on the coffee brewing pot.

10 A coffee maker realized in order to attain the aim of the present invention is illustrated in the attached figures, where:

Figure 1 - is the cross-sectional view of the coffee maker in the first position.

Figure 2 - is the cross-sectional view of the coffee maker in the second position.

Figure 3 - is the exploded view of the coffee maker.

15 Figure 4 - is the cross-sectional view of the coffee brewing pot, the additional control unit and the energy member.

The elements illustrated in the figures are numbered as follows.

- 1- Coffee maker
- 2- Body
- 20 3- Coffee brewing pot
- 4- Housing
- 5- Heater
- 6- Control unit
- 7- Mixer
- 25 8- First connector
- 9- Second connector

10- Motor

11- Sliding lid

12- Connector housing

13- Additional control unit

5 14- Energy member

15- Control member

The coffee maker (1) comprises a body (2); at least one coffee brewing pot (3) which is placed on the body (2) and wherein the coffee is brewed; a housing (4) which is provided on the body (2) and wherein the coffee brewing pot (3) is placed; a heater (5) which is provided in the housing (4) so as to be positioned under the coffee brewing pot (3); and a control unit (6) which is provided on the body (2) and which controls the coffee brewing process. The coffee brewing pot (3) is placed into the housing (4). The heater (5) is positioned so as to be under the coffee brewing pot (3). Thus, when the coffee brewing pot (3) is placed into the housing (4), the brewing process is performed by means of the heater (5).

The coffee maker (1) of the present invention comprises at least one mixer (7) which is disposed on the coffee brewing pot (3) and which enables the mixture in the coffee brewing pot (3) to be mixed. The mixer (7) is provided on the coffee brewing pot (3). Thus, the mixer (7) can be easily cleaned together with the coffee brewing pot (3). By means of the mixer (7), the coffee and water mixture is mixed before and/or during the brewing process. Thus, a homogeneous coffee mixture is obtained and the quality of the brewed coffee is increased.

In an embodiment of the present invention, the coffee maker (1) comprises a first connector (8) which is provided on the body (2), a second connector (9) which is provided on the coffee brewing pot (3), a motor (10) which is connected to the second connector (9), and the mixer (7) which is energized by the motor (10). By means of the first connector (8) provided on the body (2) and the second connector (9) provided on the coffee brewing pot (3), the mixer (7) is controlled by the control unit (6). With the

information coming from the second connector (9), the motor (10) is operated and energizes the mixer (7). Thus, the mixing process is performed.

In an embodiment of the present invention, the coffee maker (1) comprises a sliding lid (11) which is provided on the coffee brewing pot (3) and the second connector (9) which is provided on the sliding lid (11). The second connector (9) is provided on the sliding lid (11). When the sliding lid (11) is moved by the user, the second connector (9) is also moved. Thus, the mechanical security of the second connector (9) is provided.

In an embodiment of the present invention, the coffee maker (1) comprises the first connector (8) and the second connector (9) which come into contact with each other as the sliding lid (11) is slid. When the sliding lid (11) is slid by the user, the second connector (9) is moved. Thus, the second connector (9) and the first connector (8) come into contact with each other, and energy is provided.

In another embodiment of the present invention, the coffee maker (1) comprises a connector housing (12) which is disposed on the body (2) and wherein the first connector (8) is placed. The first connector (8) is positioned in the connector housing (12) provided on the body (2). Thus, the first connector (8) is enabled to be easily placed on the body (2) and protected from external factors.

In an embodiment of the present invention, the coffee maker (1) comprises a first position where the first connector (8) and the second connector (9) do not come into contact with each other and the brewing process is not started when the coffee brewing pot (3) is placed on the body (2), a second position where the first connector (8) and the second connector (9) come into contact with each other and the mixing process and the brewing process are performed after the sliding lid (11) is moved, and the control unit (6) which controls the first position and the second position. When the coffee brewing pot (3) is placed into the housing (4), the first connector (8) and the second connector (9) do not come into contact with each other. When the sliding lid (11) is triggered by the user, the second connector (9) and the first connector (8) come into contact with each other and the mixer (7) is operated. Thus, it is ensured that the mixing process is not performed independently of user control, and product safety is increased.

In an embodiment of the present invention, the coffee maker (1) comprises an additional control unit (13) which is provided on the coffee brewing pot (3) and which controls the mixer (7), an energy member (14) which enables the mixer (7) to be energized, and a control member (15) which enables the user to control the mixer (7). In an alternative
5 embodiment of the present invention, the coffee brewing pot (3) has the additional control unit (13) and the energy member (14). Thus, independently of the control unit (6), when the control member (15) is triggered by the user, the mixer (7) in the coffee brewing pot (3) is operated. Consequently, the mixing process is performed in the coffee brewing pot (3) independently of the body (2).

10 By means of the present invention, a coffee maker (1) is realized, comprising a mixer (7) which enables the coffee mixture put into the coffee brewing pot (3) to be mixed. As the mixer (7) is positioned on the coffee brewing pot (3), ease of use and cleaning is provided. By mixing the coffee mixture before or during the brewing process, a homogeneous coffee mixture is obtained and the quality of the brewed coffee is
15 increased.

CLAIMS

- 1- A coffee maker (1) **comprising** a body (2); at least one coffee brewing pot (3) which is placed on the body (2) and wherein the coffee is brewed; a housing (4) which is provided on the body (2) and wherein the coffee brewing pot (3) is placed; a heater (5) which is provided in the housing (4) so as to be positioned under the coffee brewing pot (3); and a control unit (6) which is provided on the body (2) and which controls the coffee brewing process, **characterized by** at least one mixer (7) which is disposed on the coffee brewing pot (3) and which enables the mixture in the coffee brewing pot (3) to be mixed.
- 2- A coffee maker (1) as in Claim 1, **characterized by** a first connector (8) which is provided on the body (2), a second connector (9) which is provided on the coffee brewing pot (3), a motor (10) which is connected to the second connector (9), and the mixer (7) which is energized by the motor (10).
- 3- A coffee maker (1) as in Claim 2, **characterized by** a sliding lid (11) which is provided on the coffee brewing pot (3) and the second connector (9) which is provided on the sliding lid (11).
- 4- A coffee maker (1) as in Claim 3, **characterized by** the first connector (8) and the second connector (9) which come into contact with each other as the sliding lid (11) is slid.
- 5- A coffee maker (1) as in any one of Claims 2 to 4, **characterized by** a connector housing (12) which is disposed on the body (2) and wherein the first connector (8) is placed.
- 6- A coffee maker (1) as in any one of Claims 2 to 5, **characterized by** a first position where the first connector (8) and the second connector (9) do not come into contact with each other and the heater (5) is not operated when the coffee brewing pot (3) is placed on the body (2), a second position where the first connector (8) and the second connector (9) come into contact with each other and the mixing process and the brewing process are performed after the sliding

lid (11) is moved, and the control unit (6) which controls the first position and the second position.

- 7- A coffee maker (1) as in Claim 1, **characterized by** an additional control unit (13) which is provided on the coffee brewing pot (3) and which controls the mixer (7), an energy member (14) which enables the mixer (7) to be energized, and a control member (15) which enables the user to control the mixer (7).

5

Figure 1

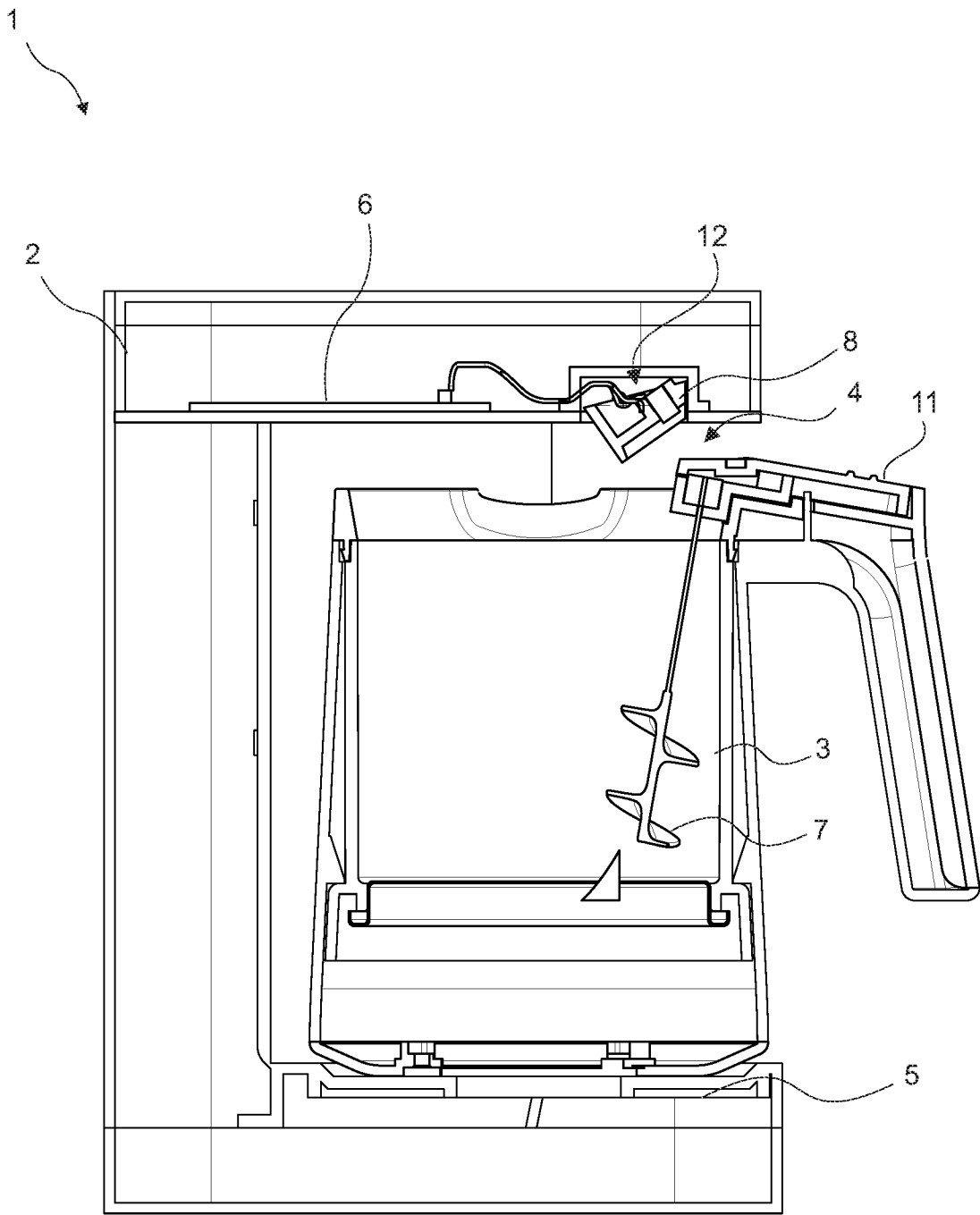


Figure 2

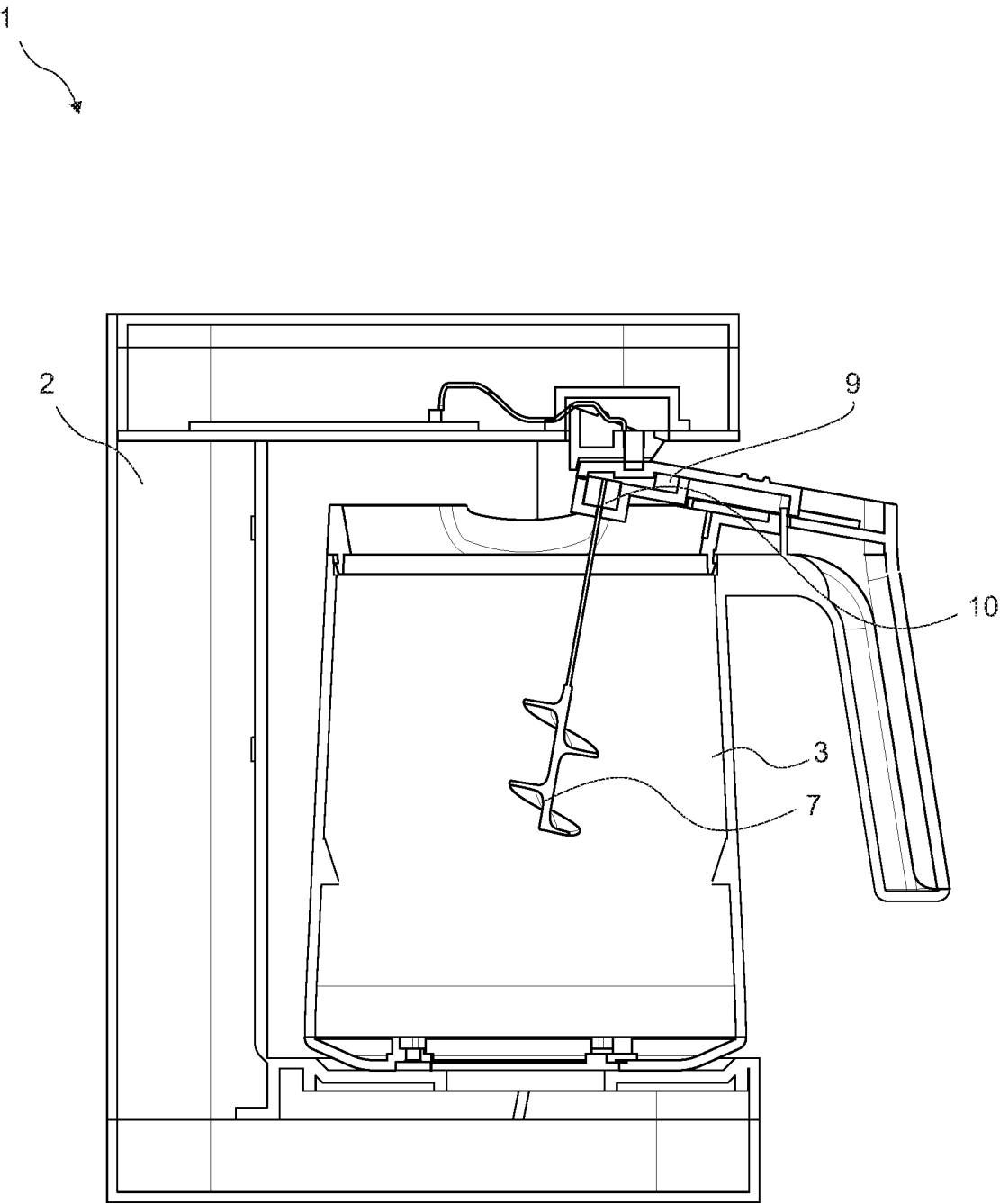


Figure 3

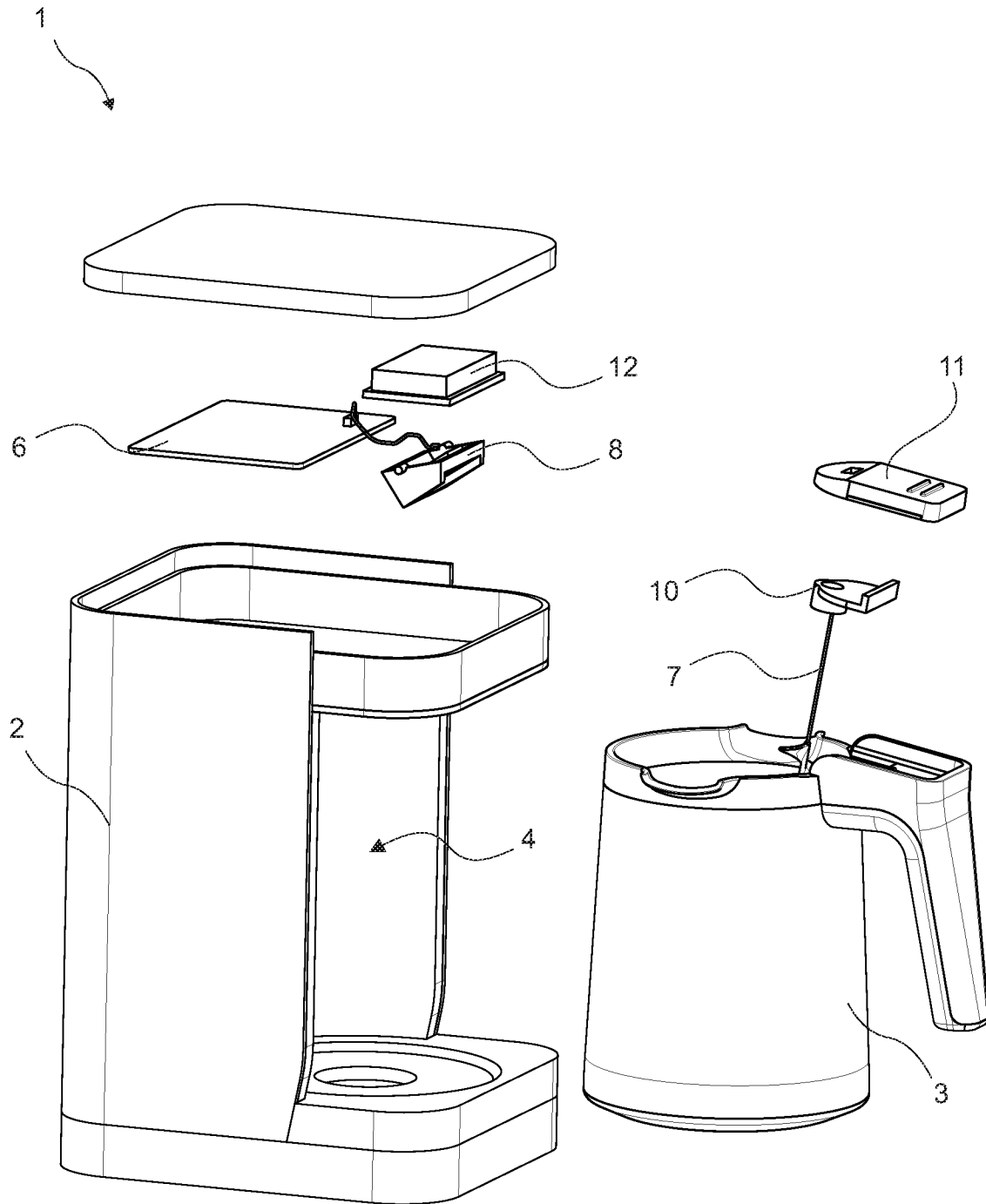
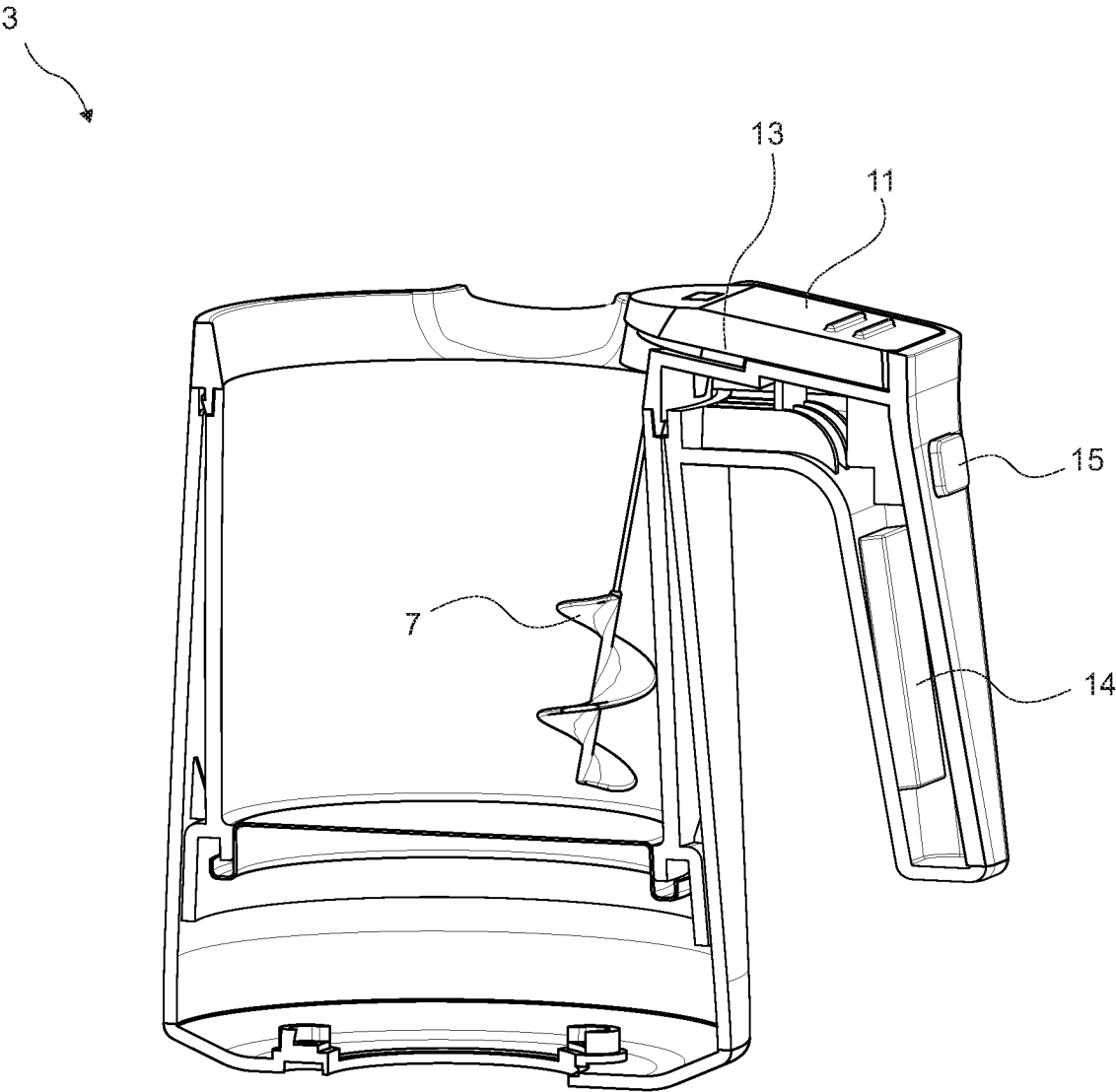


Figure 4



INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER A47J 31/18 (2006.01)i; A47J 31/44 (2006.01)i According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A47J Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched TURKPATENT Database Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPODOC, PATENW		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CN 203564095 U (WANSHIDA HANGZHOU COFFEE MACHINE CO LTD) 30 April 2014 (2014-04-30) Whole document	1-7
A	SI 20673 A (GEORGES MICHEL AL NAJJAR [LB]) 30 April 2002 (2002-04-30) Whole document	1-7
A	CN 204734355 U (FOSHAN HOMEZEST ELECTRICAL MFG CO LTD) 04 November 2015 (2015-11-04) Whole document	1-7
A	WO 2021247073 A1 (JACOBS ROBERT DAVID [US]) 09 December 2021 (2021-12-09) Whole document	1-7
☐ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
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Date of the actual completion of the international search 28 October 2024		Date of mailing of the international search report 28 October 2024
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Information on patent family members

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CN	203564095	U	30 April 2014	NONE			
SI	20673	A	30 April 2002	TR	200100549	A2	21 June 2002
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				CZ	296866	B6	12 July 2006
				CY	2348	B1	04 June 2004
CN	204734355	U	04 November 2015	NONE			
WO	2021247073	A1	09 December 2021	NONE			