Claims

1. Method for grinding material to be ground having at least one coffee grinding mill in a coffee machine, the method comprising:
determining (140A, 140B) an actual grind level of the grinding mill;
determining (130A, 130B) a target grind level of the grinding mill based on a coffee product selected by a user,
comprising: receiving (120) a first user input; and
determining (130A, 130B) the target grind level based on the received first user input, wherein the first user input is associated with the selection of a coffee product;
automatically comparing (140A, 140B) the actual grind level with the target grind level;
automatically outputting (150) an indication to a user of the grinding mill based on the comparison of the actual grind level with the target grind level, wherein the indication provides the user with a direction for adjusting the actual grind level towards the target grind level, and/or wherein the indication to the user of the grinder comprises a specification of the target grind level;
receiving (170) a second user input; and
when the actual grind level matches the target grind level:
grinding (180) the material to be ground with the actual grind level;
when the actual grind level does not match the target grind level:
grinding (180) of the material to be ground with the actual grind level, or

adjusting the actual grind level to set the target grind level,
wherein the grinding of the material to be ground with the actual grind level or adjusting the actual grind level is performed in response to the receiving the second user input.

2. Method according to one of the preceding claims, further comprising:
outputting (150) indication to the user of the grinding mill if the actual grind level does not match the target grind level, in particular wherein it is automatically output whether and/or by how much the actual grind level should be increased or reduced in order to achieve the target grind level.

3. Method according to one of the preceding claims, wherein the grinding (180) of the material to be ground with the actual and/or the target grind level takes place in response to the expiry of one or more preferably predetermined first time intervals, in particular from the first user input, the second user input, the adjustment of the grind level, the adjustment of a control element and/or the output of the indication to the user.

4. Method according to one of the preceding claims, wherein the adjustment of the actual grind level takes place in response to the expiry of one or more preferably predetermined second time intervals, in particular from the first user input, the second user input, the adjustment of the or a control element and/or the output of the indication to the user.

5. Method according to one of the preceding claims, wherein the determination of (140A, 140B) the actual grind level comprises the determination of an actual value or an actual value range for the set grind level;
wherein the determination of the target grind (130A, 130B) comprises the determination of a target value or a range of target values for the target grind; and
wherein the output of indication to the user of the grinding mill comprises the output of indication to the user of the grinding mill when the target value or target value range does not at least partially correspond to the actual value or actual value range.

6. Method according to any one of the preceding claims, wherein the determination (130A, 130B) of the actual grind level comprises the determination of a position of a control element (12) of the grinding mill and/or the determination of a position of an adjustable grinding mill element of the grinding mill, in particular the determination of a position of a first grinding mill element of the grinding mill relative to a second grinding mill element of the grinding mill.

7. Method according to one of the preceding claims, wherein the grinding mill comprises sensors (33) and wherein the determination (140A, 140B) of the actual grind level, in particular the determination of the position of a control element (12) of the grinding mill, in particular a control element (12) of a preferably manually operable and/or mechanical adjustment device (31) of the grind level, and/or the determination of the position of the grinding mill element of the grinding mill, is carried out on the basis of sensor data of the sensors (33).

8. Method according to one of the preceding claims, wherein the output (150) of the indication to the user of the grinding mill is carried out visually, preferably via a display and/or via the illumination of at least one region (13, 14, 15) of the control element.

9. Method according to one of the preceding claims, wherein the method comprises the grinding (180) of material to be ground with a plurality of grinding mills, wherein the output (150) of the indication to the user of the grinding mill based on the comparison (140A, 140B) of the respective actual grind level with the respective target grind level comprises the output (150) of respective, in particular different, indication.

10. Method according to one of the preceding claims, further comprising:
actuating (160) a cleaning process to clean the grinding mill, in particular when the actual grind level does not match the target grind level and preferably in response to or during the automatic output (150) of the indication.

11. Method according to claim 10, wherein the actuation (160) of the cleaning process comprises adjusting the actual grind level to set a transitional grind level different from the target grind level, which is preferably coarser than the actual grind level and/or the target grind level.

12. Method according to claim 10 or 11, wherein the actuation (160) of the cleaning operation comprises the actuation of the grinding mill in a reverse direction, preferably opposite to a grinding direction.

13. Coffee machine having a grinding mill and a processor, wherein the processor is configured to carry out the method according to one of the preceding claims, in particular wherein the coffee machine has a preferably manually operable and/or mechanical adjustment device of the grind level and/or an optically readable display device, preferably a display and/or a controlled illuminable region.