

What is claimed is:

1. A system for detecting a user of a bathroom, the system comprising at least one sensor coupled to a toilet, wherein the sensor generates data that can be used to detect and/or identify the user.
2. The system of claim 1, comprising more than one sensor that generates data that can be used to detect and/or identify the user.
3. The system of claim 1, wherein the toilet further comprises an excreta analysis device that analyzes excreta during use of a toilet by the user.
4. The system of claim 3, wherein the excreta analysis device analyzes urine and feces.
5. The system of claim 3, wherein the excreta analysis device comprises an excreta analysis sensor that detects electromagnetic radiation or an analyte chemical in a bowl of the toilet.
6. The system of claim 3, wherein the excreta analysis device further comprises a replaceable visual urinalysis assay.
7. The system of claim 6, wherein the replaceable visual urinalysis assay comprises a dipstick.
8. The system of claim 1, wherein the sensor is an image sensor.
9. The system of claim 8, wherein the image sensor is a time-of-flight camera.
10. The system of claim 8, wherein the image sensor is installed above a seat or a seat cover on the toilet.
11. The system of claim 8, wherein the image sensor is installed or integrated into a seat or a seat cover on the toilet.

12. The system of claim 11, wherein the image sensor is integrated or installed onto the seat cover on the toilet, wherein the image sensor is capable of imaging the user only when the seat cover is raised.

13. The system of claim 11, wherein the image sensor is integrated or installed between the seat cover and the seat such that the image sensor is capable of imaging the user only when the seat cover is raised.

14. The system of claim 1, wherein data from the sensor is transmitted to a computational device, wherein the computational device is capable of analyzing the data to determine characteristics of the user that are detected by the sensor.

15. The system of claim 14, wherein the computational device is dedicated to user detection and identification and is joined to the sensor in a housing.

16. The system of claim 14, wherein the computational device is not dedicated to user detection and identification and is not housed with the sensor.

17. The system of claim 16, wherein data from the sensor is transmitted to the computational device by wire or by a wireless communication protocol.

18. The system of claim 16, wherein the computational device is also capable of analyzing data from an excreta analysis device on the toilet.

19. The system of claim 14, wherein the computational device comprises software that can use data from the sensor to detect and identify a first user, as well as detect and identify one or more different additional users.

20. The system of claim 19, wherein the software can generate a first user profile for the first user, and a second user profile for the second user.

21. The system of claim 14, wherein the computational device identifies the user by comparing the data from the sensor to data in a stored user profile, wherein, (a) if the data from the sensor matches the user profile, the user is identified as the user in the user profile, or (b) if the data from the sensor does not match the user profile or any other stored user profile, the user is identified as a guest or a new user, wherein the data from the sensor is used to create a user profile for the new user.

22. The system of claim 14, wherein the system generates a user profile identifying an individual user; detects a presence of a current user; matches the current user with a user profile; records a bathroom use event; and associates the bathroom use event with the matched user profile.

23. The system of claim 3, wherein the data from the excreta analysis device determines whether the user has a condition that can be discerned from a clinical urine or stool test, diarrhea, constipation, changes in urinary frequency, changes in urinary frequency, changes in urinary volume, changes in urine color, changes in bowel movement frequency, changes in bowel movement volume, changes in bowel movement hardness, changes in bowel movement color, or any combination thereof.

24. A method of detecting a user of a bathroom, the method comprising analyzing data generated by the sensor in the system of any previous claim to detect and/or identify the user.