CLAIMS :

1. Capsule for the preparation of a beverage comprising a container and a beverage ingredient contained therein, wherein the container comprises a code adapted for being identified or read by external reading means, wherein the code is arranged on the container to be read while the capsule is rotated around an axis of rotation traversing the capsule~~.~~, the capsule having a circumference

   -wherein the code comprises successive segments that are individually rectilinear, the successive segments extending substantially along at least an eighth of the circumference.

~~2. Capsule according to claim 1, having a circumference wherein the code is arranged on the container along an arc-shaped or circular path of the circumference.~~

~~3. Capsule according to claim 1, having a circumference wherein the code comprises successive segments which are individually rectilinear but extend substantially along at least a part of the circumference.~~

~~4. Capsule according to claims 2 or 3, wherein the code is arranged along at least a eighth of the circumference.~~

~~5.~~2. Capsule according to ~~any of claims 2 to 4~~claim 1, wherein the code is repeated along said circumference.

~~6.~~3. Capsule according to any of the preceding claims, wherein the code is a bit code formed by a series of discrete polygonal (e.g., rectangles or squares) or dot surfaces printed on and/or embossed in the container.

~~7.~~4. Capsule according to any of claims 1 to ~~5~~2, wherein the code is printed by an ink which is not visible by human eyes under natural light (e.g., ink visible under UV).

~~8.~~5. Capsule according to any of claims 1 to ~~5~~2, wherein the code is printed or embossed by a pattern which possesses surfaces having different reflective and/or absorbing properties to light.

~~9.~~6. Capsule according to claim ~~8~~5, wherein the pattern possesses first surfaces having inclined mirroring or absorbing properties to light and second surfaces having flat mirroring or flat reflective properties to light.

~~10.~~7. Capsule according to any of claims 1 to ~~6~~ 3 and ~~8~~ 5 to ~~9~~6, wherein the code is mechanically embossed or engraved on the container by laser.

~~11.~~8. Capsule according to any of claims 1 to ~~10~~7, wherein the container comprises a body and a lid connected to the body and wherein the code is present on the lid of the container.

~~12.~~9. Capsule according to any of claims 1 to ~~10~~7, wherein the code is present on the rim of the capsule.

~~13.~~10. Capsule according to claim ~~12~~9, wherein the code is present on the bottom of the rim of the capsule which is opposed to the lid or foil of the capsule.

~~14.~~11. System for preparing a beverage from a capsule according to any of the preceding claims and further comprising a beverage preparation device; wherein the device comprises capsule holding means for holding the capsule and rotational drive means for driving the holding means and capsule in rotation along said axis of rotation and reading means arranged for reading the code when the capsule is rotated along said axis.

~~15.~~12. System according to claim ~~14~~11, wherein the reading means comprises a light emitter and a light sensor or an inductive sensor.

~~16.~~13. System according to claims ~~14~~ 11 or ~~15~~12, wherein the optical reading means or inductive sensor is arranged to detect a code on the rim of the capsule.

~~17.~~14. Method for preparing a beverage from a system according to any one of claims ~~14~~ 11 to ~~16~~13, wherein the beverage is extracted from the capsule by rotating the capsule along said axis.

~~18.~~15. Method according to claim ~~17~~14, wherein the code is read at a first rotational speed and the beverage is extracted from the capsule at a second rotational speed.