CLAIMS:

1. Support adapted to be associated with, or part of, a capsule for the preparation of a beverage, characterized in that it comprises a section ~~on which at least one~~with a plurality of sequences of symbols ~~is~~ represented so as that each symbol is sequentially readable, by a reading arrangement of an external device, while the capsule is driven in rotation along an axis of rotation, each sequence coding a set of information related to the capsule, wherein each sequence comprises a preamble, the preamble coding a reserved sequence of bits to enable determination of the position of an associated sequence.

2. Support according to claim 1, wherein the set of information of at least one of the sequences comprises information for recognizing a type associated to the capsule.

3. Support according to any one of claims 1 to 2, wherein the set of information of at least one of the sequences comprises information for detecting errors, and/or for correcting errors in said set of information.

~~4. Support according to any one of claims 1 to 3, wherein at least one of the sequences comprises symbols defining a preamble sequence, so as to allow the determination of a position of the symbols in said sequence coding the set of information related to the capsule.~~

~~5.~~4. Support according to claim ~~4~~3, wherein the preamble symbols and/or the preamble sequences comprise information for ~~authentifying~~ authenticating the set of information.

~~6.~~5. Support according to any one of claims 1 to ~~5~~4, wherein each symbol is represented in the section by an entity having a measurable characteristic, readable by the measuring arrangement, the measurable characteristic varying according to the value conveyed by said symbol.

~~7.~~6. Support according to claim ~~6~~5, wherein each symbol is printed and/or embossed in the section of the support, and/or is formed of one or a plurality of discrete polygonal or elliptical surfaces.

8.7. Support according to claim 76, wherein the section of the support is a circumference, each symbol being represented in the section by a segment which is sensibly rectilinear and extends substantially along at least a part of the circumference.

9.8. Support according to any of claims 65-87, wherein the symbol are readable by an optical sensor included in the reading arrangement, the color and/or the shape of each symbol being chosen according the value of said symbol.

10.9. Support according to any of claims 6-5 to 98, wherein the symbols are printed by an ink which is not visible by human eyes under natural light.

11.10. Support according to any of claims 6-5 to 109, wherein the symbols is printed or embossed by a pattern which possesses surfaces having different reflective and/or absorbing properties to light.

12.11. Support according to claim 1110, 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.

13.12. Capsule for the preparation of a beverage comprising a container and a beverage ingredient contained therein, wherein the container comprises at least one support according to any of claims 1 to 1211.

14.13. Capsule according to claim 13-12 wherein the support is permanently attached or placed on said capsule, or, is removably connected.

15.14. Capsule according to any one of claims 1312-1413, having a circumference wherein the section is arranged on the container along an arc-shaped or circular path of the circumference.

16.15. Capsule according to claim 1514, wherein each sequence is arranged along at least a eighth of the circumference.

17.16. Capsule according to any of claims 13-12 to 1615, wherein the container comprises a body and a lid connected to the body and wherein the section is present on the lid of the container.

18.17. Capsule according to any of claims 15-14 to 1716, wherein the section is present on the rim of the capsule.

~~19.~~18. Capsule according to claim ~~18~~17, wherein the section is present on the bottom of the rim of the capsule which is opposed to the lid or foil of the capsule.

~~20.~~19. A ~~S~~system for preparing a beverage, the system comprising:

a capsule for the preparation of a beverage comprising a container and a beverage ingredient contained therein, wherein the container comprises at least one support, the support adapted to be associated with, or part of, a capsule for the preparation of a beverage, characterized in that it comprises a section on which at least one sequence of symbols is represented so as that each symbol is sequentially readable, by a reading arrangement of an external device, while the capsule is driven in rotation along an axis of rotation, each sequence coding a set of information related to the capsule; ~~from a capsule according to any one of the claims 13-19 or a combination of a capsule having a support according to any one of the claims 1-12, 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 sequences of symbols in the section when the capsule is rotated along said axis.

~~21.~~20. System according to claim ~~20~~19, wherein the reading means comprises a light emitter and a light sensor or an inductive sensor.

~~22.~~21. System according to claims ~~20~~ 19 or ~~21~~20, wherein the optical reading means or inductive sensor is arranged to read the sequences on the rim of the capsule.

~~23.~~22. Method for preparing a beverage from a system according to any one of claims ~~20~~ 19 to ~~22~~21, wherein the beverage is extracted from the capsule by rotating the capsule along said axis.

~~24.~~23. Method according to claim ~~23~~22, wherein the symbols are read at a first rotational speed and the beverage is extracted from the capsule at a second rotational speed.