

CLAIMS:

1. An optically readable code support (60a, 60b) ~~adapted~~ to be ~~associated~~attached to ~~with~~-or part of a capsule ~~intended~~ for delivering a beverage in a beverage producing device by centrifugation of the capsule, the support comprising at least one sequence of symbols ~~represented~~arranged on the support circumferentially about an axis of rotation so that each symbol is sequentially readable by a reading arrangement of an external reading device while the capsule is driven in rotation along ~~the~~an axis of rotation,

wherein the symbols are at least partly formed of surfaces arranged to reflect mainly diffusively, in any direction forming an angle comprised between 3° and 10° with respect to a normal of said surface, any incoming beam of light with an incoming direction forming an angle comprise between 0 and 10° with respect to a normal of said surface.

2. Optically readable code support according to claim 1, wherein a plurality of the symbols are at least partly formed of a light reflecting surface, said light reflecting surface, when illuminated by an incoming beam of light having a wavelength of sensibly 830nm, reflects:

- an outgoing beam with a reference intensity E_{REF} , in a direction forming an angle of 0° with respect to a normal of said first surface, when said incoming beam of light has an incoming direction forming an angle of 5° with respect to a normal of said first surface;
- an outgoing beam with at least 60% of the reference intensity E_{REF} in a direction forming an angle comprised between 3° and 6° with respect to a normal of said first surface, when said incoming beam of light has an incoming direction forming an angle comprised between 0° and 10° with respect to a normal of said first surface.

3. Optically readable code support according to claim 2, wherein the light reflecting surface, when illuminated by an incoming beam of light having a wavelength of sensibly 830nm, reflects an outgoing beam with at least 72% of the reference intensity E_{REF} in a direction forming an angle comprised between 3° and 4.4° with respect to a normal of said first surface, when said incoming beam of light have an incoming direction forming an angle comprised between 0° and 10° with respect to a normal of said first surface.

4. Optically readable code support according to any one of the claims 2 to 3, wherein a plurality of the symbols are at least partly formed of a light absorbing surface, said light absorbing surface, when illuminated by an incoming beam of light having a wavelength of

17. Optically readable code support according to any one of claims 1 to 16, wherein the code support comprising a base structure (500) extending continuously at least along said sequence of symbols and discontinuous discrete light-absorbing portions (528; 628) locally applied onto or formed at the surface of said base structure; wherein the discontinuous discrete light-absorbing portions form the light-absorbing surfaces and the base structure (500) forms the light-reflective surfaces (400-403; 600-604) outside the surface areas occupied by the discrete light-absorbing portions; said discrete light-absorbing portions (410-414; 610; 615) are arranged to provide a lower light-reflectivity than the one of the base structure outside the surface areas occupied by the discrete light-absorbing portions.

18. Capsule ~~indented~~ for delivering a beverage in a beverage producing device by centrifugation, the capsule comprising a flange-like rim, the flange-like rim comprising an optically readable code support according to any of the preceding claims.

19. System for preparing a beverage from a capsule according to claim 18, and further comprising a beverage preparation device; wherein the device comprises capsule holding means (32) for holding the capsule and rotational drive means (5) for driving the holding means and capsule in rotation along said axis of rotation; the beverage preparation devices further comprising an optical reading arrangement (100) configured for reading the symbols represented on the optically readable code support by measuring a reflectivity and/or a contrast of a section of the code support by illuminating a fixed illuminated area smaller than the area occupied by the first surface or the second surface, while driving the rotational drive means (5) so as to the capsule performs at least one complete revolution.

20. System according to claim 19, wherein the capsule holding means (32) is at least partially transparent, and wherein the optical reading arrangement (100) is configured for measuring the reflectivity and/or the contrast of an illuminated area of the code support, through the capsule holding means (32).

21. Method for reading the symbols represented on the code support of a capsule according to claim 18, in a beverage preparation device, said device comprising capsule holding means (32) for holding the capsule and rotational drive means (5) for driving the holding means and capsule in rotation along said axis of rotation; the beverage preparation devices further comprising an optical reading arrangement (100); characterized in that the method comprises the step of measuring a reflectivity and/or a contrast of a section of the code support by illuminating a fixed illuminated area smaller than the area occupied by the first surface or the