CLAIMS

1.- A ball whirling device for recreational games of chance, the device being incorporable in the frame (1) or housing of a recreational game of chance, the device comprising:

a drum (2), lateral ends of which end in respective outer shafts (3),

actuation means (4) and sensing means (5) for sensing the position of the drum (2), the actuation means (4) and the sensing means (5) being connected with the respective outer shafts (3),

a plurality of drawing balls (6) arranged in said drum (2),

a basket (7) for displaying the winning ball, the basket (7) being associated with a hole, included in said drum (2), through which one of the balls (6) is able to enter the basket (7), and

blades (9) for mixing the balls (6), characterized in that the ball mixing blades (9) are integrally attached to the inner face of the structure of the drum and adopt a radial arrangement in an imaginary plane passing through the geometric center of the drum (2) or an arrangement inclined with respect to said imaginary radial plane.

2.- The ball whirling device for recreational games of chance according to claim 1, characterized in that there are involved at least two blades in the drum.

3.-The ball whirling device for recreational games of chance according to claim 2, characterized in that the blades are arranged antisymmetrically according to the imaginary axis of rotation of the drum.

4.-The ball whirling device for recreational games of chance according to claim 1, characterized in that the drum has a spherical configuration.

5.-The ball whirling device for recreational games of chance according to claim 1, characterized in that the drum has a spherical configuration, elongated in the horizontal direction.

6.-The ball whirling device for recreational games of chance according to claim 1, further comprising a reader (8) for reading the balls (6), characterized in that the reader (8) can interchangeably be a dynamic or static barcode reader.

7.-The ball whirling device for recreational games of chance according to claim 6, characterized in that when the reader (8) is a static reader, it comprises a motor-driven mechanism, associated with a propeller (11) to control position of the ball (6) in the basket (7), and the motor-driven mechanism, associated with a propeller (11) is established in correspondence with the lowermost position of the basket (7).

8.- The ball whirling device for recreational games of chance according to claim 6, characterized in that the control circuit of the device incorporates means for the limited back and forth movement of the drum in case the reading of the ball is not possible due to said ball being absent.

CLAIMS

1.- A ball whirling device for recreational games of chance, the device being incorporable in the frame (1) or housing of a recreational game of chance, the device comprising:

a cage-like drum (2), the lateral ends of which include respective outer shafts (3), and wherein said drum (2) includes a hole for translational movement located on the bisector of the imaginary axis of rotation of the drum (2),

actuating drive means (4) which are connected with one of the outer shafts (3) and which are connected with electronic control elements for starting, stopping and changing the rotational direction of said drive means (4),

sensing means (5) for sensing the angular position of the drum (2), said sensing means (5) being connected with the other outer shaft (3),

a plurality of drawing balls (6) arranged in said drum (2),

a basket (7) for collecting and displaying the winning ball, said basket (7) being fixed to said drum (2) and being associated with a hole included in said drum (2), such that a ball passing through the hole enters the basket (7),

blades (9) for mixing the balls (6), said ball mixing blades (9) are attached to the inner face of the structure of the drum (2) and adopt a radial arrangement in an

imaginary plane passing through the geometric center of the drum (2),

a reader (8) for reading the balls (6), said reader (8) can interchangeably be a dynamic or static barcode reader,

characterized in that in case the reader (8) is a static reader, said device comprises a motor-driven mechanism connected to a propeller (11) to control position of the ball (6) in the basket (7), said motor-driven mechanism and propeller (11) being established such that the vanes of the propeller (11) make contact with the ball (6) housed in the basked (7) when the basket (7) is at its lowermost position, said position coinciding with the display area of the ball (6), and wherein said vanes rotate the ball until the ball can be read correctly by the reader (8), and wherein

said device comprises a control circuit, wherein said control circuit incorporates means for causing limited back and forth movement of the drum (2) in case the reading of the ball (6) is not possible due to said ball (6) being absent.

2.- The ball whirling device for recreational games of chance according to claim 1, characterized in that there are involved at least two blades in the drum.

3.- The ball whirling device for recreational games of chance according to claim 2, characterized in that the blades are arranged antisymmetrically according to the imaginary axis

of rotation of the drum.

4.- The ball whirling device for recreational games of chance according to claim 1, characterized in that the drum has a spherical configuration.

5.- The ball whirling device for recreational games of chance according to claim 1, characterized in that the drum has a prolate spheroid configuration.