CLAIMS

1. A dice shaking mechanism (100) comprising,
a driving member (101);
a drive shaft (120) connected to the driving member (101), the drive shaft (120) in communication with a crank pin (103);
wherein the drive shaft (120) is arranged to rotate about a drive shaft axis,
the crank pin (103) having a crank pin axis offset from the drive shaft axis;
a control arm (104);
wherein the control arm (104) has a first end (150) and an opposing second end, the first end connected to the crank pin (103), and
a lifting member; wherein the control arm (104) is arranged to move the lifting member along a vertical axis of the dice shaking mechanism (100); and
wherein the lifting member comprises a platform (108); and
characterized in that the dice shaking mechanism further comprises:
a guiding mechanism (112) arranged to restrict the motion of the platform (108) reciprocally along the vertical axis;
wherein the lifting member comprises a frame (107) attached to the second end of the control arm (104);
wherein the platform (108) is attached to the frame (107); wherein the guiding mechanism (112) comprises a rigid rod; and
wherein the frame (107) is slidably attached to the rigid rod.

2. A dice shaking mechanism (100) as claimed in claim 1, wherein the lifting member is arranged to reciprocally move between a first position and a second position, each of the first position and the second position located on the vertical axis of the dice shaking mechanism (100).

3. A dice shaking mechanism (100) as claimed in claim 2, wherein the first position is located vertically above the second position.

4. A dice shaking mechanism (100) as claimed in any of the preceding claims further comprising,

    a limiting mechanism,
        wherein the limiting mechanism is arranged to restrict the movement of the platform (108) to between the first position and the second position.

5. A dice shaking mechanism (100) as claimed in any one of the preceding claims,
        wherein the platform (108) has a platform width (PW); and
        wherein the frame (107) has a frame width.

6. A dice shaking mechanism (100) as claimed in any of the preceding claims further comprising,
    a sensor (121); and
    an actuator (122).

7. A dice shaking mechanism (100) as claimed in claim 6, wherein the actuator (122) is arranged to activate the sensor (121).

8. A dice shaking mechanism (100) as claimed in claim 6 or 7, wherein the sensor (121) is positioned opposing the actuator (122).

9. A dice shaking mechanism (100) as claimed in claim 4, further comprising,
    a housing (213) arranged to accommodate,
        the frame (107); and
        the driving member (101); and
        the drive shaft (120); and
        the control arm (104); and
        the limiting mechanism.

10. A dice shaking mechanism (100) as claimed in claim 9, wherein the sensor (121) is positioned at a fixed point on the frame (107) or the housing (213); or preferably wherein the actuator (122) is positioned at a fixed point on the frame (107) or the housing (213).

11. A dice shaking mechanism (100) as claimed in any of claims 9 to 10, further comprising,
a screen member (216) protruding from the housing (213).

12. A dice shaking mechanism (100) as claimed in claim 11, wherein the screen member (216) is cylindrical.

13. A dice shaking mechanism (100) as claimed in claim 2, further comprising,
a damping component (219) to assist with the final location of the dice.