Claims

1. A bean grinding apparatus (1) comprising a body (2); grinding burrs (3,4) mounted in the body (2), the burrs comprising a non-driven burr (4) and a rotationally driven burr (3), the rotationally driven burr (3) having a rotational axis (A) about which it rotates; a drive motor (23) operatively coupled to the rotationally driven burr (3); a grounds flow path (P) defined within the body; and an exit spout, the exit spout (64) having an inlet in communication with the grounds flow path and an outlet, wherein the exit spout (64) defines a longitudinal axis and the longitudinal axis of the exit spout is angled with respect to the rotational axis of the driven burr; wherein both the rotational axis and the longitudinal axis of the exit spout are angled with respect to a vertical plane; wherein the rotationally driven burr (3) is an inner grinding burr; the non-driven burr (4) is a complementary outer grinding burr; the inner burr (3) is carried by a shaft (5); a bearing (6) journals the shaft for rotation about the rotational axis; the apparatus further includes an outer burr support (8) which supports the outer burr (4), wherein the outer burr support (8) defines a recess (7) within which the outer burr (4) is located; wherein the bearing (6) is arranged concentrically with respect to the recess (7), such that the inner burr (3) is located concentrically with respect to the outer burr (4), wherein the apparatus (1) further includes a grounds directing element (31) located below the burrs (3,4), characterised in that the grounds directing element (31) includes one or more fingers (32) which sweep the grounds into the grounds flow path (P); and an outer burr adjustment mechanism which adjusts the axial location of the outer burr (4) relative to the inner burr (3), wherein the adjustment mechanism includes a biasing element configured to bias the outer burr away from the inner burr.
2. A bean grinding apparatus according to Claim 1, wherein the rotational axis (A) and the longitudinal axis of the exit spout form an inverted V.
3. A bean grinding apparatus according to Claim 1 or Claim 2, wherein the non-driven burr (4) is a stationary burr.
4. A bean grinding apparatus according to any of Claims 1 to 3, wherein the angle defined between the rotational axis (A) and the longitudinal axis of the spout is from 10° to 45°.

5. A bean grinding apparatus according to any of Claims 1 to 4, wherein the rotational axis (A) intersects with the longitudinal axis of the exit spout, and the point of intersection is located within the body (2).

6. A bean grinding apparatus according to any of Claims 1 to 5, wherein the apparatus defines a cavity below the burrs (3,4) and the grounds directing element (31) is located within the cavity.

7. A bean grinding apparatus according to any of Claims 1 to 6, wherein the apparatus further includes a base element (81), wherein the body (2) of the apparatus is coupled to one end of the base element (81) and an opposite end of the base element defines a grounds collector aperture and the grounds collector aperture is located vertically below the exit spout outlet.

8. A bean grinding apparatus according to any of Claims 1 to 7, wherein the outer burr support (8) is defined by or carried by the body, such that the outer burr support is fixed relative to the body.

9. A bean grinding apparatus according to Claim 8, wherein the apparatus further includes a bearing support plate (9) located within the recess (7), wherein the bearing (6) is carried by the bearing support plate (9).

10. A bean grinding apparatus according to Claim 8 or Claim 9, wherein the bearing (6) is a combined journal and thrust bearing.

11. A bean grinding apparatus according to any of Claims 1 to 10, wherein the apparatus further includes a base element (81) and a grounds collector platform (82) located on the base element (81), wherein the grounds collector platform (82) is located below the outlet of the exit spout (64), defines a grounds collector receiving portion and is formed from wood.

12. A bean grinding apparatus according to any of Claims 1 to 11, wherein the apparatus further includes a reservoir (60) defined by a body, wherein the reservoir (60) is in communication with the grinding burrs (3,4); and a cover (98) hingedly coupled to the reservoir body, the

cover (98) having a closed configuration in which the reservoir (60) is covered by the cover and access to the reservoir (60) is prevented, and an open configuration in which access to the reservoir (60) is permitted; the drive motor (23) is an electric motor and includes an immobilising switch (97) having an operating position which permits the operation of the motor, and an immobilised position in which operation of the motor is prevented; wherein the cover (98) includes a switch engagement element (103); and wherein the switch engagement element (103) positions the immobilising switch in the operating position when the cover is in its closed configuration.

13. A bean grinding apparatus according to Claim 12, wherein the cover (98) is transparent.