

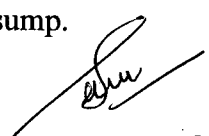
00184 DELAP 14
09 JAN

CLAIMS

1. A dry slag rotary atomising granulator comprising a rotatable disk mounted on a support for rotation about an axis of rotation, wherein the granulator further comprises a cooling system for supplying a coolant to the disk; wherein the disk comprises a first surface to receive slag and a second surface remote from the slag receiving first surface for receiving coolant; wherein the disk comprises a metal; and wherein the disk further comprises terracing on the first surface; and a layer of solidified slag formed on the first surface.
2. A granulator according to claim 1, wherein the granulator further comprises a slag supply outlet for supplying slag onto the first surface of the disk.
3. A granulator according to claim 2, wherein the slag supply outlet is an outlet of a slag runner or tundish.
4. A granulator according to any of claims 1 to 3, wherein the cooling system comprises coolant sprays directed at the second surface of the disk remote from the first surface.
5. A granulator according to claim 4, wherein the coolant sprays comprise water sprays.
6. A granulator according to any of claims 1 to 3, wherein the cooling system comprises a flowing coolant system.
7. A granulator according to claim 6, wherein the granulator further comprises a housing, the housing comprising a cylinder coupled to an annular disk and mounted relative to the second surface, such that the cylinder and annular disk form an annular passage for containing a flow of coolant.

8. A granulator according to any preceding claim, wherein the granulator further comprises a sump.
9. A granulator according to any preceding claim, wherein the coolant comprises
5 water.
10. A granulator according to any preceding claim, wherein the first surface of the disk is concave.
- 10 11. A granulator according to claim 10, wherein an extension of a chord between two points on the circumference of the disk, the chord passing through the axis of rotation, forms an acute angle with a tangent of the disk surface at the edge of the disk pointing towards the axis of rotation.
- 15 12. A granulator according to claim 11, wherein the acute angle is between 30° and 50° .
13. A granulator according to claim 12, wherein the acute angle is 40° .
- 20 14. A method of operating a dry slag rotary atomising granulator comprising a rotatable disk mounted on a support for rotation about an axis of rotation; wherein the granulator further comprises a cooling system for supplying a coolant to the disk; wherein the disk further comprises a first surface to receive slag and a second surface remote from the first surface for receiving coolant; wherein the disk comprises a metal;
25 and wherein the disk has terracing on the first surface; the method comprising supplying slag to the first surface of the disk; supplying coolant to the second surface of the disk, remote from the slag receiving first surface; forming a layer of solidified slag on the first surface; retaining the layer of solidified slag on the terracing; and continuing to supply slag to the first surface for atomising.
- 30 15. A method according to claim 14, comprising causing coolant to exit an annular passage at the circumference of the disk; and collecting the coolant in a sump.

Dated this 09.01.2014


[SWATI PAHUJA]
OF REMFRY & SAGAR
ATTORNEY FOR THE APPLICANT[S]