

## Patents

Number	Title	Description
<b>ZA 2005 08393</b> <b>AU-A-2003 291213</b>	Spiral Separator and Control System	Increasing the efficiency of spiral circuits through feedback control and manipulation of process inputs without relying on splitters
<b>SA 2006 220430</b> <b>AU-A-2006 220430</b>	Dewatering of aqueous magnetite concentrates	Magnetically dewatering ore concentrate to obtain a dewatered product without relying on filtration equipment, at a fraction of the equipment and operating cost
<b>SA 1998 11207</b> <b>US 6,092,667</b>	Method and Apparatus for aeration of liquids or slurries	Controlling the jet dissipation and air dispersion in a free jet bubble column, thereby generating an improved regime for bubble-particle contact
<b>SA 2003 07363</b>	Spiral Splitter Arrangement	A novel design spiral splitter assisting in the preferential collection of heavy particles
<b>ZA 2008 05499</b>	Dense Medium Separation Process	Improvements to Dense Medium Plants by replacing conventional densifiers with magnetic densifier
<b>ZA 2010 07287</b>	Magnetic Separator	An improved design for a wet drum magnetic separator
<b>Pending</b>	Magnetic Separator	Power-on-demand System, developed to reduce power consumption and improve efficiency of tramp iron removal systems.
<b>Pending</b>	Method and Apparatus to recover Magnetic Material from Slurries	High-efficiency medium recovery, densification and demagnetisation system