

DIE CASTING SYSTEM AND CELL

ABSTRACT OF THE DISCLOSURE

5 A die casting system includes a die, a shot tube, a melting system and a vacuum system. The die includes a plurality of die components that define a die cavity. The shot tube is in fluid communication with the die cavity and is operable to deliver a charge of material to the die cavity. The melting system is positioned adjacent to the die and includes an alloy loader, a melting unit and a crucible. The vacuum system defines a first chamber and a second chamber separated from the first
10 chamber by an isolation valve. The melting system is disposed within the first chamber, and the die is disposed within the second chamber.

Figure 1