Powder Dispensing And Sensing Apparatus And Methods

Abstract

Powder dispensing and sensing apparatus and methods are provided. The powder dispensing and sensing apparatus includes a tray support structure to receive a cartridge tray holding cartridges, a powder dispenser assembly including powder dispenser modules to dispense powder into respective cartridges of a batch of cartridges in the cartridge tray, a powder transport system to deliver powder to the powder dispenser modules, a sensor module including sensor cells to sense respective fill states, such as the weights, of each of the cartridges in the batch of cartridges, and a control system to control the powder dispenser modules in response to the respective sensed fill states of each of the cartridges of the batch of cartridges.

Figure 1