ABSTRACT

A powder container that is removably attachable to an image forming apparatus and that includes a container body, including a container opening in a first end and containing image forming powder; a conveyor, arranged inside the container body, to convey the powder from a second end of the container body to the first end along a longitudinal direction of the container body; a nozzle receiver, arranged in the container opening and including a nozzle receiving opening to receive a powder conveying nozzle of the image forming apparatus, to guide the powder conveying nozzle to the inside of the container body; and a scooping portion, scooping up the powder received from the conveyor with the rotation of the scooping portion, to move the powder to a powder receiving opening of the powder conveying nozzle. The nozzle receiving opening is arranged on the inner bottom of the container opening.

POWDER CONTAINER AND IMAGE FORMING APPARATUS

ABSTRACT

A powder container is to be attached to a powder conveying device with a longitudinal direction of the powder container parallel to a horizontal direction. The powder conveying device includes a conveying nozzle, provided with a powder receiving opening to receive powder from the powder container, to convey the powder; an open/close member to open and close the powder receiving opening; a flange provided to the open/close member; a biasing member to bias the open/close member to close the powder receiving opening; and a container setting section to which a part of the powder container is to be fit. The powder container includes a conveyor, arranged inside the powder container, to convey the powder from a second end of the powder container to a first end along the longitudinal direction of the powder container; a container opening protruding from the first end of the power container; a nozzle receiving opening, provided in the container opening, into which the conveying nozzle provided to the powder conveying device is to be inserted; and a butting portion provided in the container opening, to butt against the flange so as to move the open/close member to open the powder receiving opening. When the powder container is attached to the powder conveying device, the container opening is fitted to the container setting section, and the flange and the biasing member are housed in an inner space of the container opening.

Fig. 1