

An apparatus for filling containers, said apparatus comprising a feed nozzle which may be placed over the feed orifice of the container, the feed nozzle being so constructed that the solids may be introduced under pressure and the container being surrounded by a cage, as well as a process for filling containers, in particular with finely divided solids having a high air content by arranging an air-permeable large container in an apparatus according to the invention, air-tight connection of the large container to the feed nozzle, filling of the container under pressure, removal of the filled container and container with air-permeable plies.