ABSTRACT

A DRY POWDER INHALATION SYSTEM

Dry powder inhaler systems for pulmonary delivery of pharmaceuticals are disclosed. The dry powder inhalation systems comprise a dry powder inhalation device or inhaler and a cartridge containing a pharmaceutical formulation comprising an active ingredient for delivery to the pulmonary circulation. The present devices provide rugged devices which are reusable, use pre-metered unit dose cartridges which deliver a medicament in a liner manner, and can be disassembled for cleaning. The devices also provide a high resistance inhalation system which enables deagglomeration of dry powder particles, have a consistent airflow, are easy to manufacture and are simple and relatively easy to use.

Fig. 3