

ABSTRACT

CARBON NANOTUBE SYNTHESIS PROCESS APPARATUS

- 5 A carbon nanotube synthesis process apparatus comprises
a reaction tube in which a reaction field is formed, and a
discharge pipe (32) arranged downstream of the reaction tube
and discharging carbon nanotubes to the outside. A plurality
of nozzles (34) are provided on the side wall of the
10 discharge pipe (32) in directions which are deflected with
respect to the center (0) of the discharge pipe (32). When
gases are discharged from the plurality of nozzles (34), a
swirl flowing from the inner side surface along the inner
side surface is produced in the discharge pipe (32).
15 Adhesion of carbon nanotubes to the inner side surface of
the discharge pipe (32) is prevented by the swirl flow and
thus the apparatus can be operated continuously.

Fig. 2