



Abstract

Horizontal multi-washer and Method of Total
5 Cleaning of Synthesis Gases obtained from the
Gasification of Wastes of the most varied Composition

The invention relates to a multi-washer, and to a method
of total cleaning of synthesis gases from the
10 gasification of wastes of the most varied composition.
Such multi-washers are used to remove lumpy and adhesive
materials contained such as carbon particles and sulphur.

According to the present invention a horizontal container
15 (1) is sub-divided by partition bulkheads (5) into a
plurality of wash chambers (2,3,4), which are each
provided with a sumpless outflow to the pump system
(6,7,8). Disposed in each of the chambers is at least
one substance exchanger (9) in an oblique position, which
20 is sprayed from both sides with varying quantities of
wash liquid, which penetrates into the substance
exchangers and, due to the varying quantity, is removed
in an directed fashion. As the wash liquid also sprays
the container wall, total self-cleaning of the multi-
25 washer is ensured. In order to prevent any transfer of
wash liquid from one wash chamber into the following wash
chamber, a droplet collector (10) is located, seen in the



direction of gas flow, at the rear end of each wash chamber.

5 (Figure 1)