

**MULTI-BAGS FILTRATION ASSEMBLY WITH BACK WASHING CAPABILITY AND
THE METHOD OF FILTRATION/BACK WASHING USING THE SAME**

ABSTRACT OF THE DISCLOSURE

A multi-bags filtration assembly (100) with back washing capability and the method of
5 filtration/back washing using the same is disclosed. The filtration system comprises (i) a
cylindrical tank (10) having a top plate (60) and a bottom plate (60') mounted across the tank
(10); (ii) a plurality of elongated steel cores (20) with perforated outer surface; (iii) an enclosure
(16) being mounted to enclose the plurality of steel cores (20); (iv) a first filtering cloth (11)
mounted concentrically and dangling to the cylindrical tank (10); (v) a slurry pump providing
10 intermittent flow of the slurry; (vi) a second filtering cloth (12) with a plurality of hairy elements
being used to enclose the steel enclosure (16); and (vii) a third (13) and a fourth filtering cloth
(14) mounted individually to the steel core (20).

(FIG. 4)