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(54) Title: PARTICLE SETTLING DEVICES

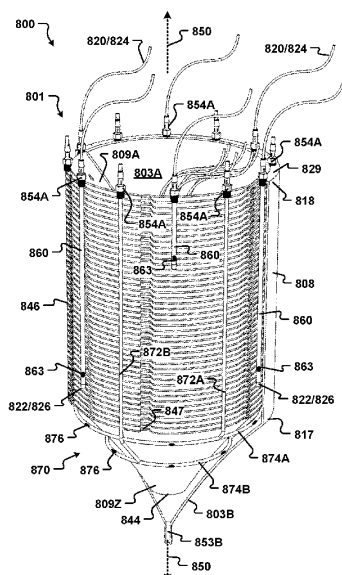


Fig. 80

(57) Abstract: Settling devices for separating particles from a bulk fluid with applications in numerous fields. The particle settling devices include a stack of cones with a small opening oriented upwardly or downwardly. The cones have an interior surface that is convex. These devices are useful for separating small (millimeter or micron sized) particles from a bulk fluid with applications in numerous fields, such as biological (microbial, mammalian, plant, insect or algal) cell cultures, solid catalyst particle separation from a liquid or gas and waste-water treatment.

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