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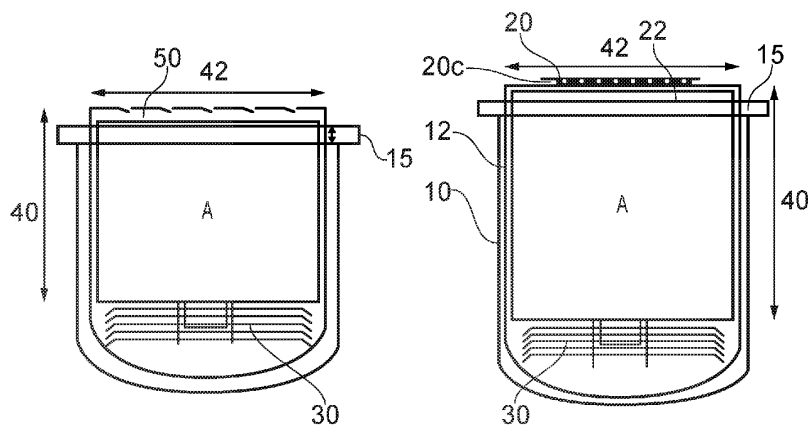


FIG. 1

(57) Abstract: A cryopump comprising: a vessel (10) comprising a radiation shield (12) having a frontal opening (22), said frontal opening (22) forming an inlet to said vessel (10); a frontal array (20) thermally coupled to said radiation shield (12) and mounted across said frontal opening (22); a cryopanel structure (30) mounted within said vessel (10); a two stage refrigerator extending into said vessel (10), a first stage of said refrigerator being thermally coupled to said radiation shield (12) and a colder second stage of said refrigerator being thermally coupled to said cryopanel structure (30); wherein said vessel (10) comprises an elongate vessel a distance (40) between a surface of said cryopanel structure (30) closest to said frontal opening (22) and a surface of said frontal array (20) closest to said cryopanel structure (30) comprising between 0.6 and 1.2 times the diameter of said frontal opening (22).



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