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(54) Title: A COLLECTING DEVICE AND A METHOD FOR COLLECTION OF AIRBORNE PARTICLES FROM A FLOW OF AIR

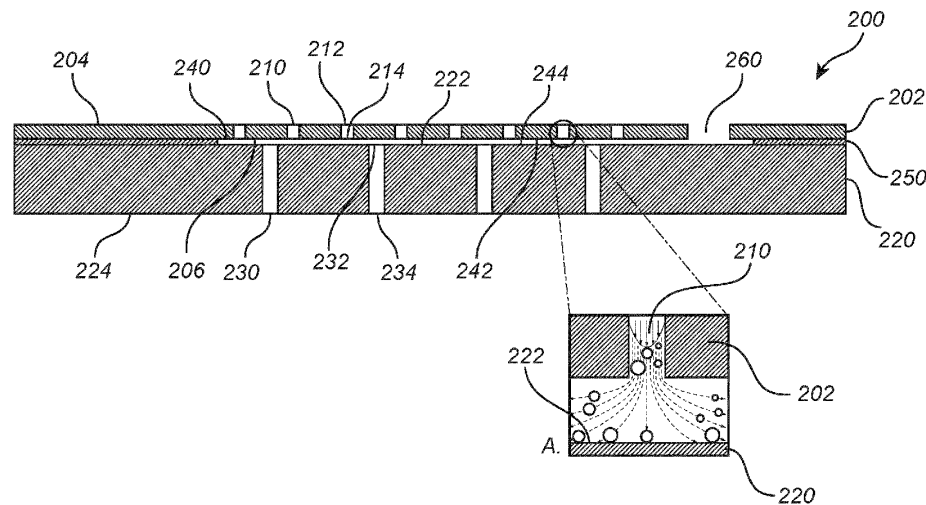


Fig. 2

(57) Abstract: A collecting device (200) for collecting airborne particles comprises: a first (202) and second layer (220) spaced apart for forming a particle collection chamber (240) therebetween, wherein inlets (210) extend through the first layer (202) for transporting a flow of air into the particle collection chamber (240); wherein ends (214) of the inlets (210) face a first surface (222) of the second layer (220) for capturing airborne particles by impaction; wherein outlets (230) extend through the second layer (220) for transporting the flow of air out of the particle collection chamber (240); wherein the inlets (210) and outlets (230) are staggered such that the center axes of the inlets (210) and outlets (230) are displaced from each other; wherein the flow of air experiences a pressure drop lower than 3 kPa at a flow rate of 0.5 liters per second, when the flow of air passes the collecting device (200).

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