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(54) Title: A DEVICE, SYSTEM AND METHOD FOR WASHING AND ISOLATING MAGNETIC PARTICLES IN A CONTINUOUS FLUID FLOW

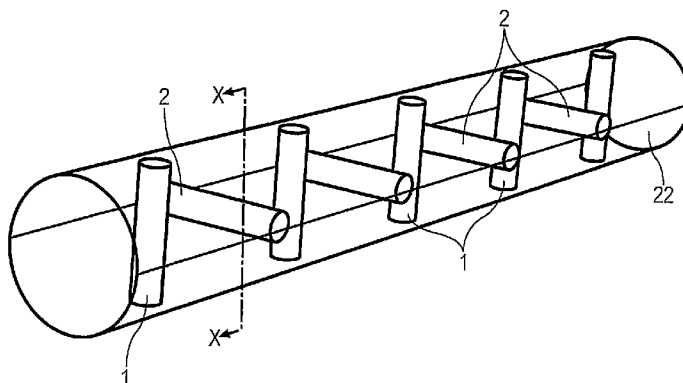


FIG. 2A

(57) Abstract: A device for washing and isolating magnetic particles from a continuous fluid flow in at least one fluidic channel having an inlet at one end and an outlet at another end, said device comprising at least one magnetic source carrier arranged proximate to the at least one fluidic channel. The at least one magnetic source carrier is moveable between a first position and a second position. The at least one magnetic source carrier comprises at least one first magnetic source, wherein a movement of the at least one magnetic source carrier to the first position places the at least one first magnetic source at a first spatial location along the at least one fluidic channel such that said at least one first magnetic source generates a maxima magnetic field at said first spatial location that attracts the magnetic particles from the continuous fluid flow and assembles said magnetic particles at said first spatial location. A movement of the at least one magnetic source carrier to the second position places the at least one first magnetic source distal from the first spatial location such that said magnetic field at said first spatial location is at a minima and the magnetic particles disperse from said first spatial location.

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