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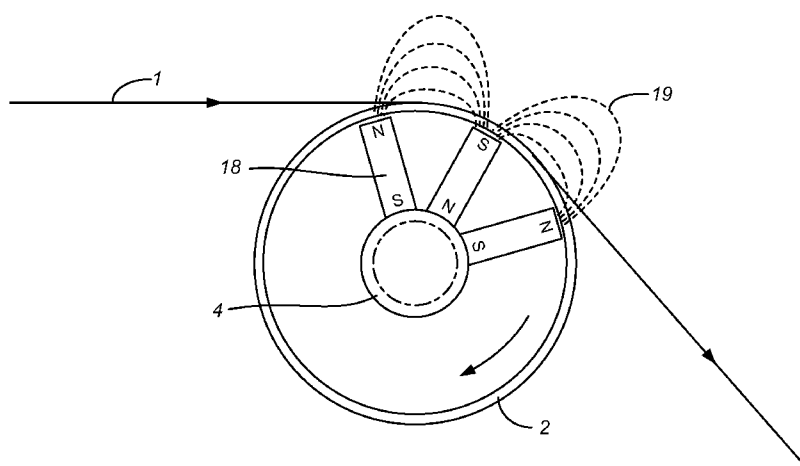


FIG. 6

(57) **Abstract:** A magnetically enhanced roller for handling of magnetically attractable substrates comprises a rotatably fixed shaft and a sleeve circumscribing the rotatably fixed shaft. The sleeve configured to rotate around the shaft. The roller further includes an array of magnets adjacent to the shaft. Individual magnets of the array of magnets are oriented to provide magnetic field lines along a direction orthogonal to the rotatably fixed bearing shaft.