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(54) Title: ENHANCED MIXING DEVICE, SYSTEM AND METHOD OF MIXING

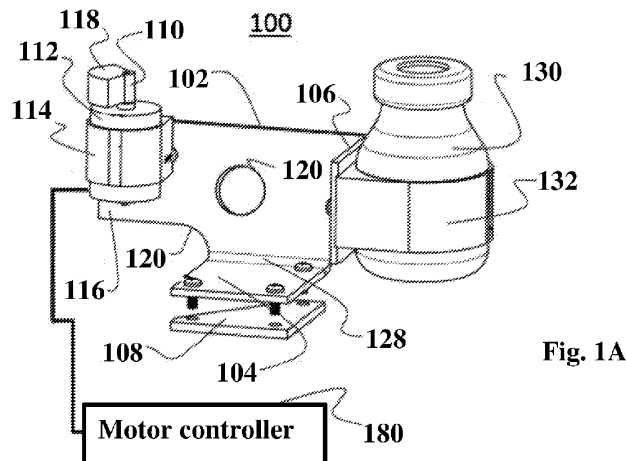


Fig. 1A

(57) Abstract: A mixing device of Fig. 1B comprises a multi-element spring system in which an eccentric load, coupled to a rotor of a motor, is located towards a first end of a first beam realising a backbone for the mixing device. One or more connections interconnect the backbone respectively to one or more other beams to produce the multi-element spring system. A load, such as a vial or other container in which is located a diluent, is located remotely from the motor. As such, the spring system supports two independent but complementary eccentric load generating subsystems arising from, respectively, the controlled rotation of the rotor [and its eccentric load] and then, in response to rotation of the connected eccentric load on the rotor, swirling of the diluent in the vial/container. Both these eccentric loads contribute to a complex multidirectional flexing of the multi-element spring system [relative to a fixed anchor point].

[Continued on next page]

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