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(54) Title: EXTENDABLE CONTROLLER

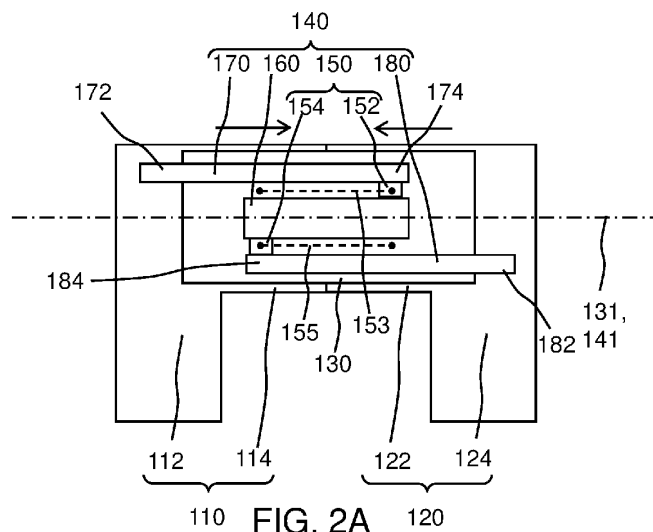


FIG. 2A

(57) **Abstract:** An extendable controller having a first handle part; a second handle part; an elongate bridge with a first half in sliding engagement with a first bridge-link portion of the first handle part and a second half in sliding engagement with a second bridge-link portion of the second handle part; and an extendable arrangement to synchronously extend and retract the first handle part and the second handle part uniformly in opposite directions relative to the elongate bridge along an extension axis. The extendable arrangement includes a dual-reciprocating-opposite-motion-carrier system having a first reciprocating carrier, a second reciprocating carrier, an opposite motion mechanism to move the first reciprocating carrier and the second reciprocating carrier in opposite directions with respect to the extension axis, a first elongate member coupling the first handle part to the first reciprocating carrier, and a second elongate member coupling the second handle part to the second reciprocating carrier.

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