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(54) **ELECTRIC MOTORIZED SKATEBOARD WITH AN ACTUATOR ASSEMBLY WITH A FOOTPAD AND FORCE SENSOR**

(52) **U.S. Cl.**
CPC *A63C 17/12* (2013.01); *A63C 17/012* (2013.01)
USPC **180/181**

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(57) **ABSTRACT**

(73) Assignee: **Intuitive Motion, Inc.**, Modesto, CA (US)

There is provided an electric motorized skateboard. The skateboard includes a skateboard deck and wheels. The skateboard includes a first actuator with a footpad and a force sensor. The footpad is generally disposed at a deck top surface. The footpad and the force sensor are cooperatively sized and configured to translate force applied to the footpad to the force sensor. The force sensor is sized and configured to output a sensed signal in response to application of force upon the force sensor. The skateboard includes a controller in electrical communication with the force sensor. The controller receives the sensed signal and generates a motor input signal in response to the sensed signal. The skateboard includes an electric motor in mechanical communication with at least one of the wheels. The motor has a variable electric motor output in response to a value of a motor input signal.

(21) Appl. No.: **13/764,630**

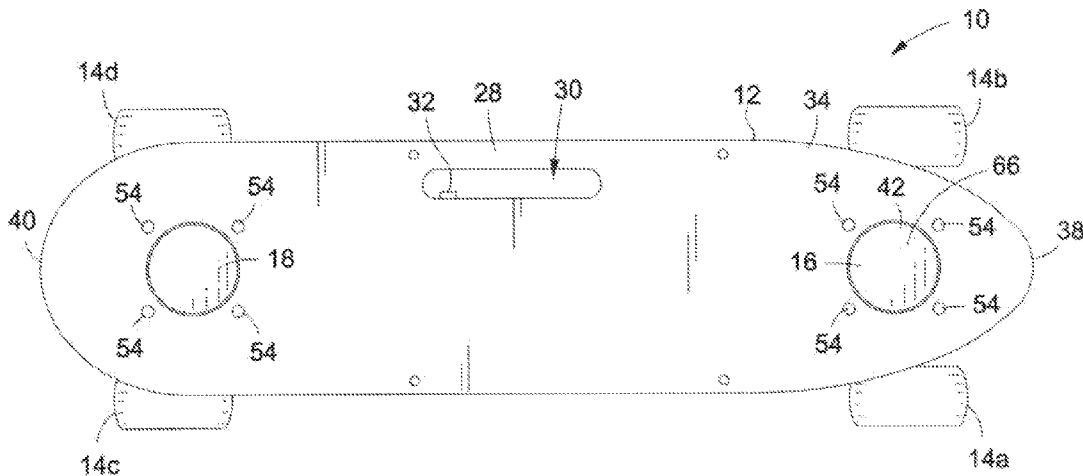
(22) Filed: **Feb. 11, 2013**

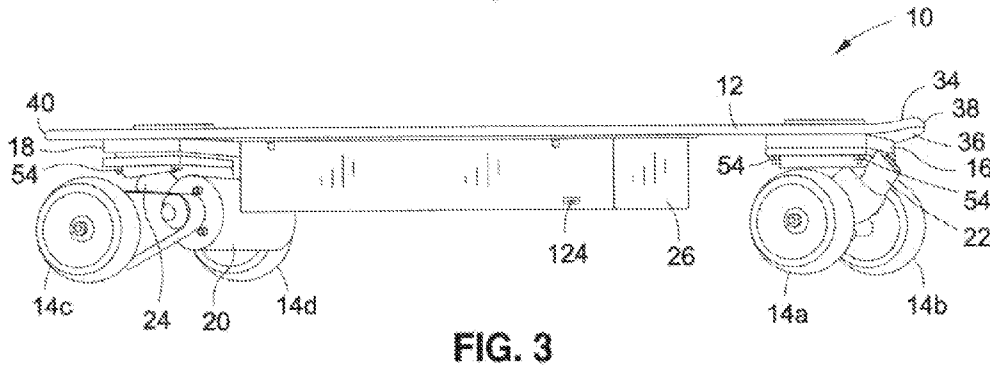
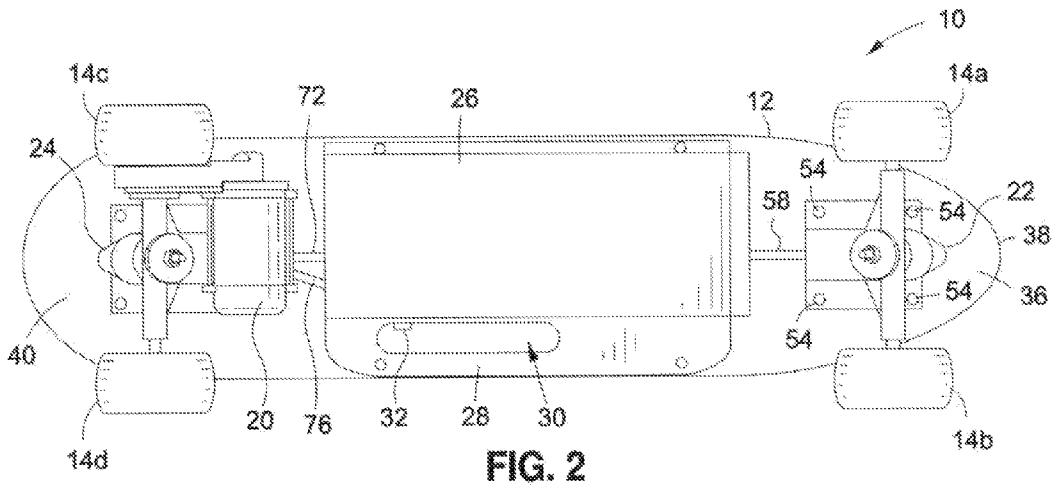
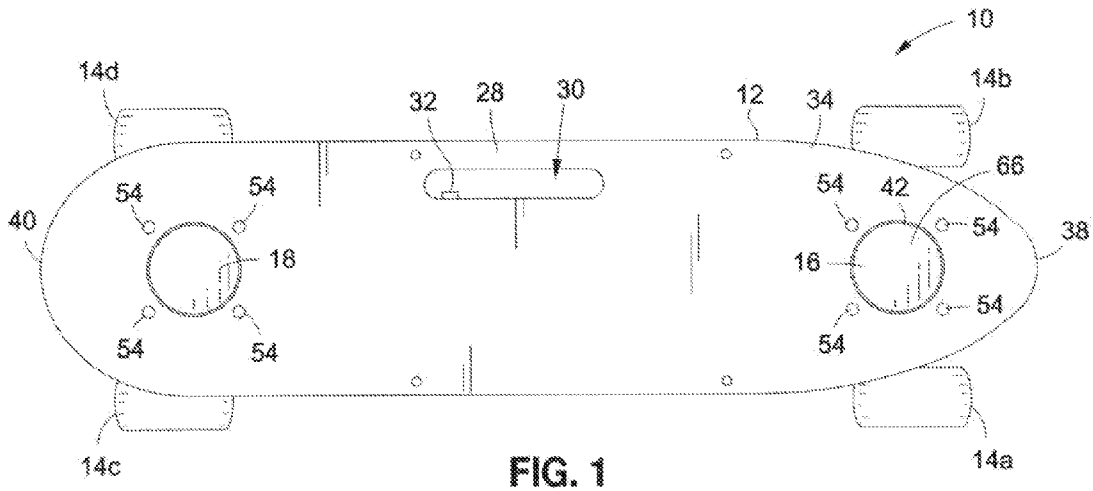
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(51) **Int. Cl.**
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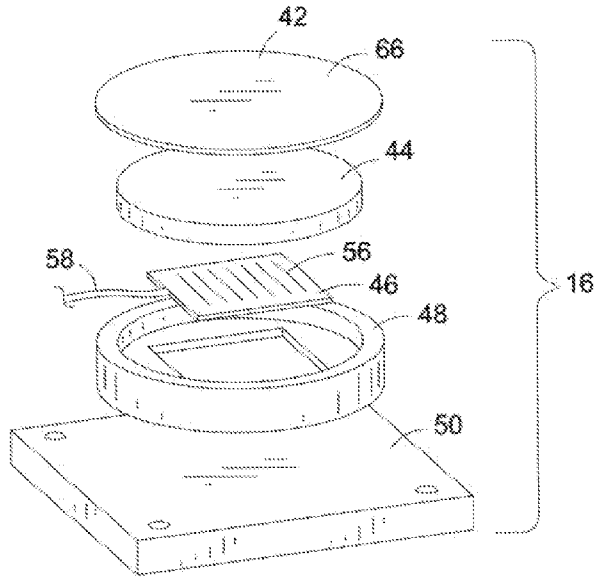


FIG. 4

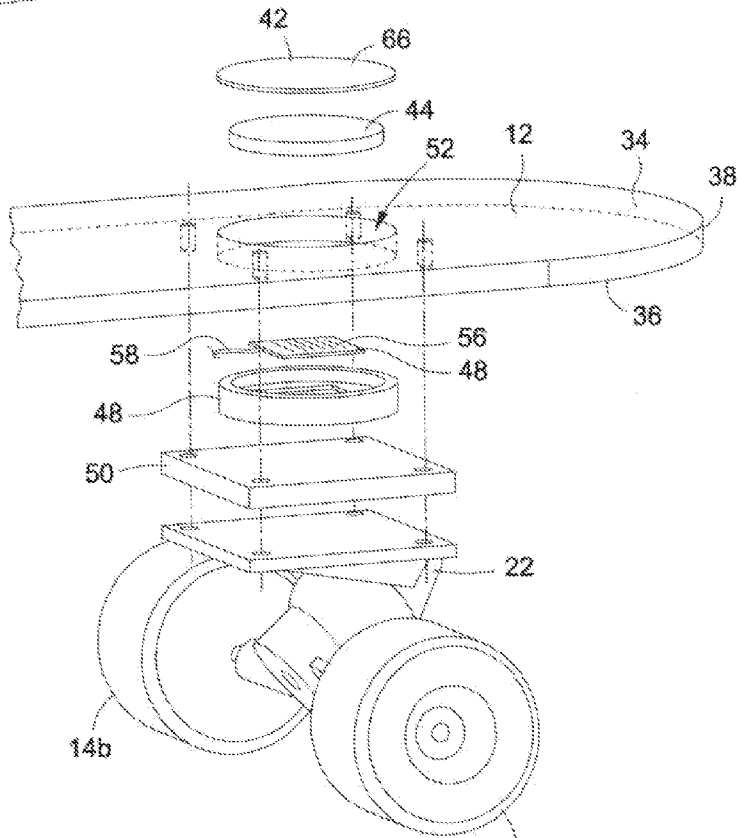


FIG. 5

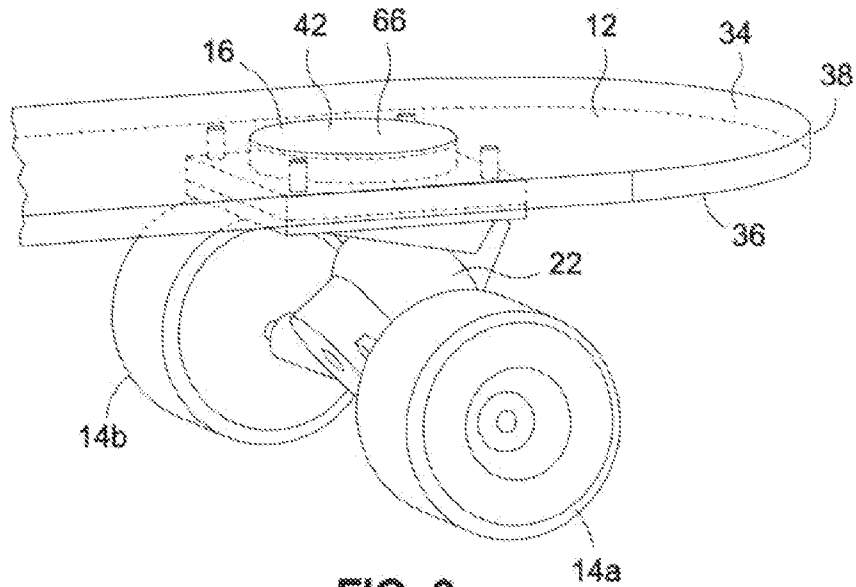


FIG. 6

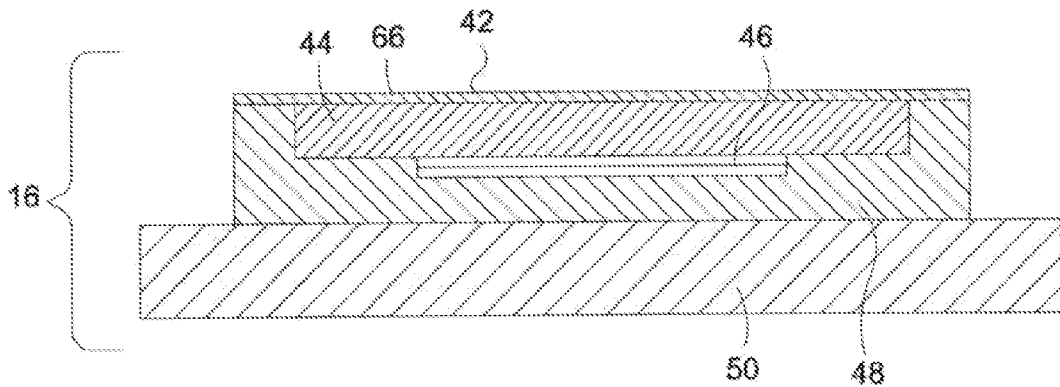


FIG. 7

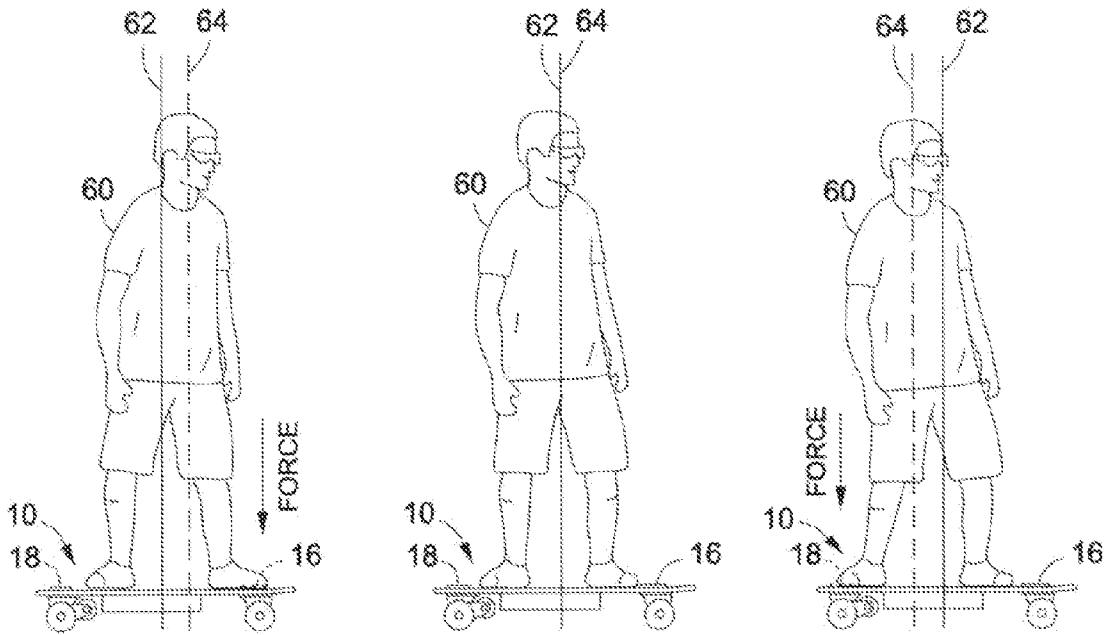


FIG. 8A

FIG. 8B

FIG. 8C

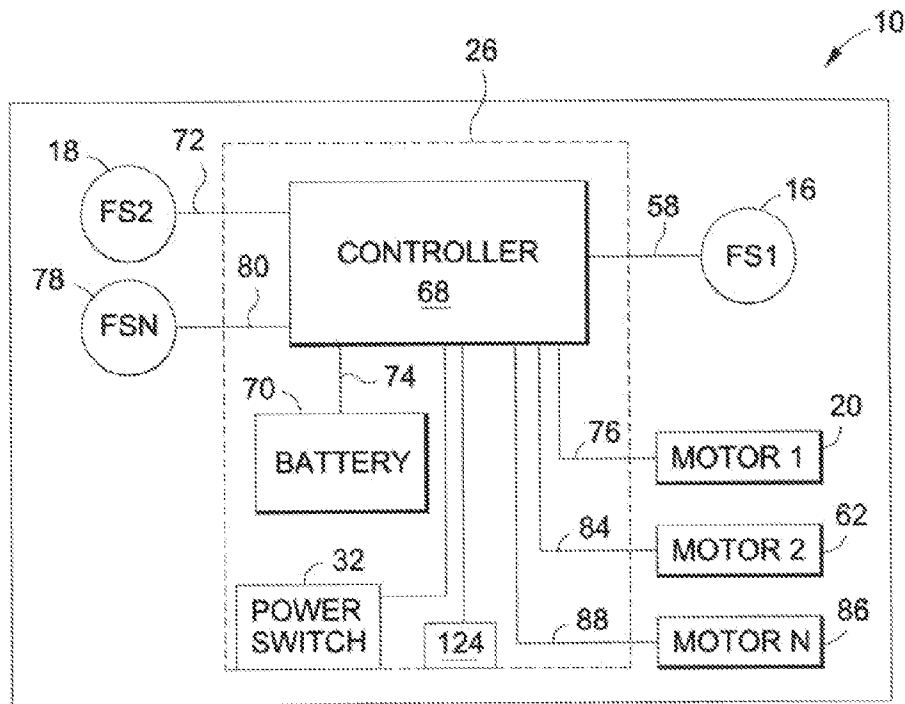


FIG. 9

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