

1/20

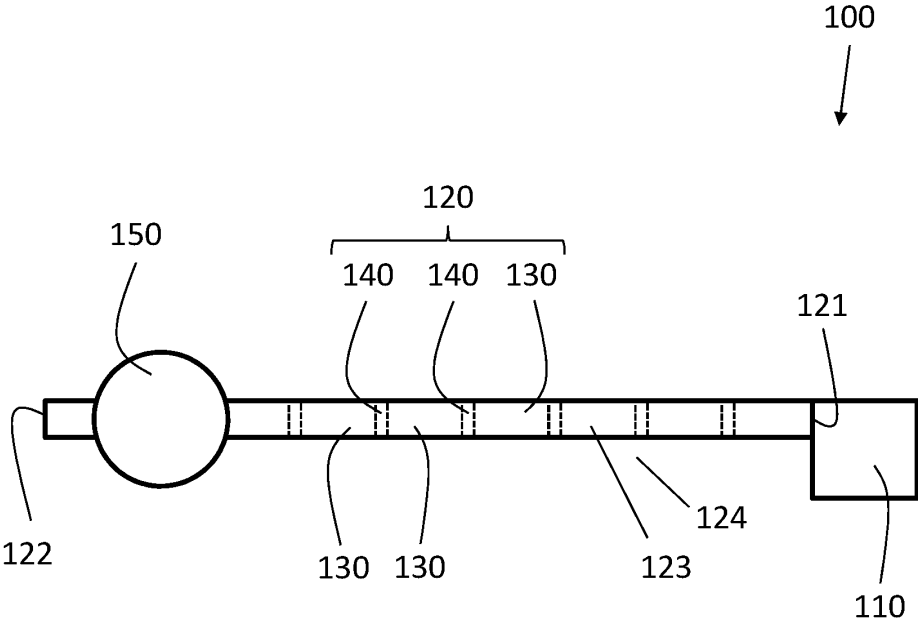


FIG. 1

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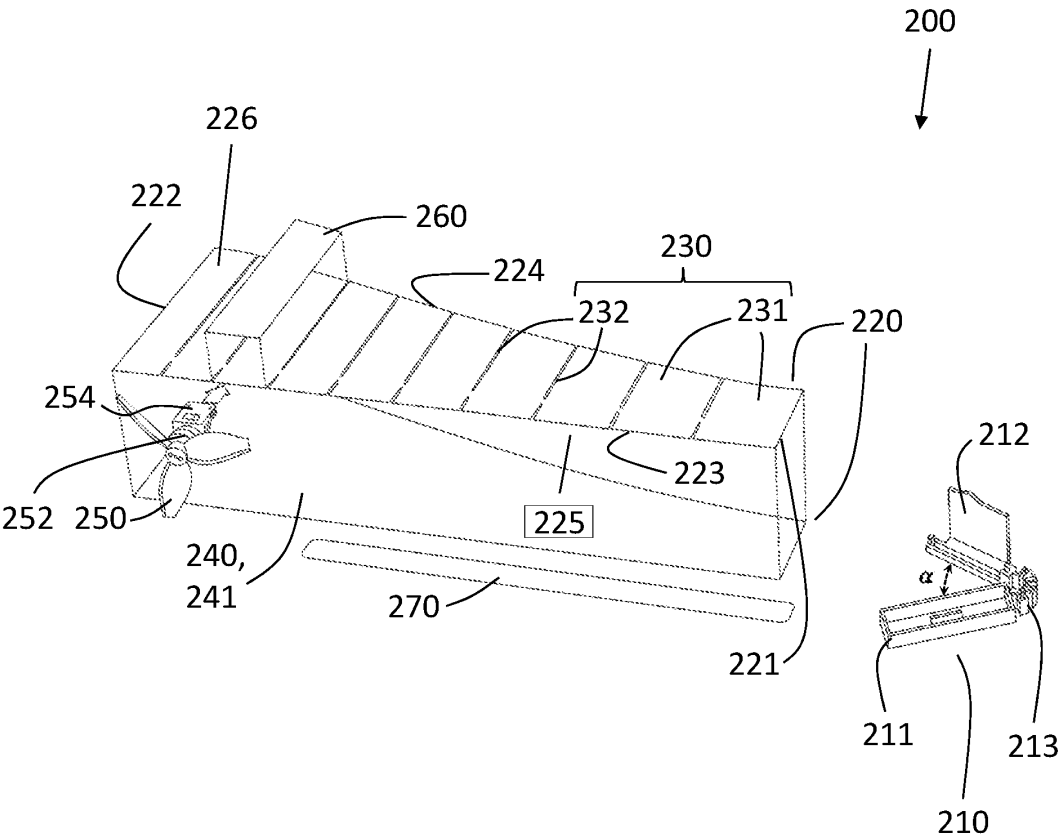


FIG. 2A

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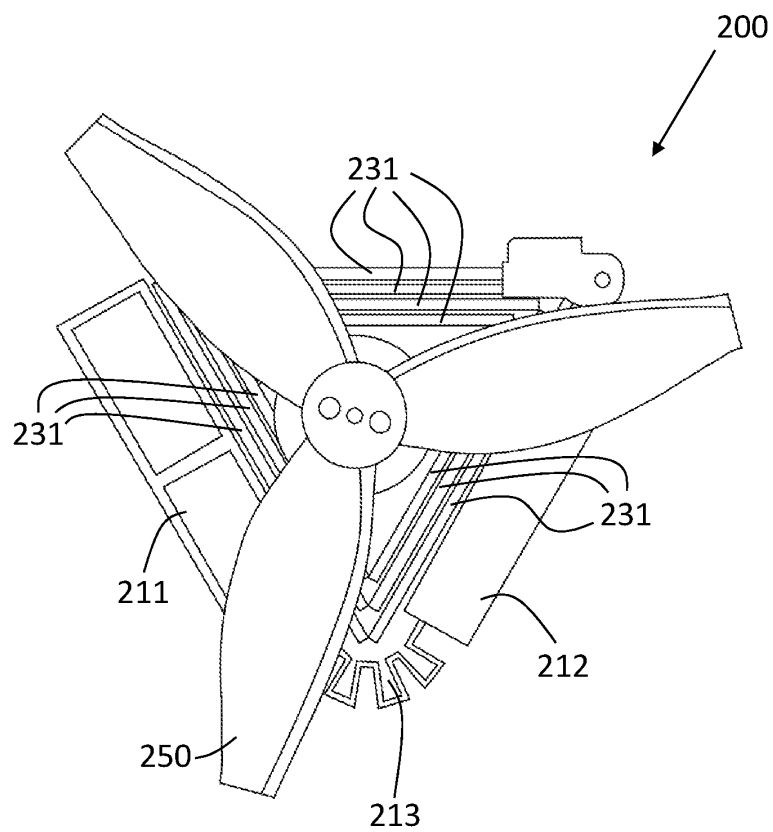


FIG. 2B

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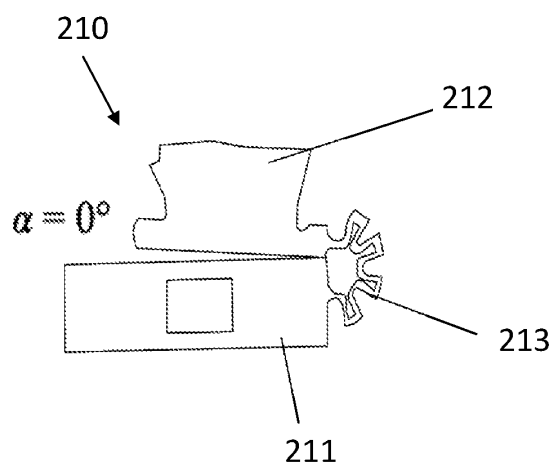


FIG. 2C

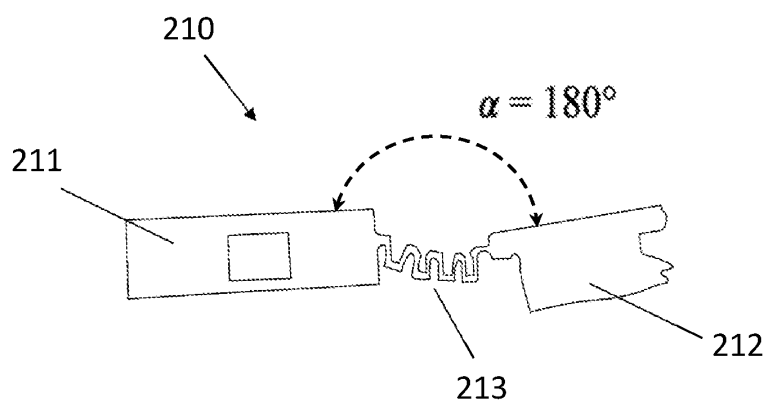


FIG. 2D

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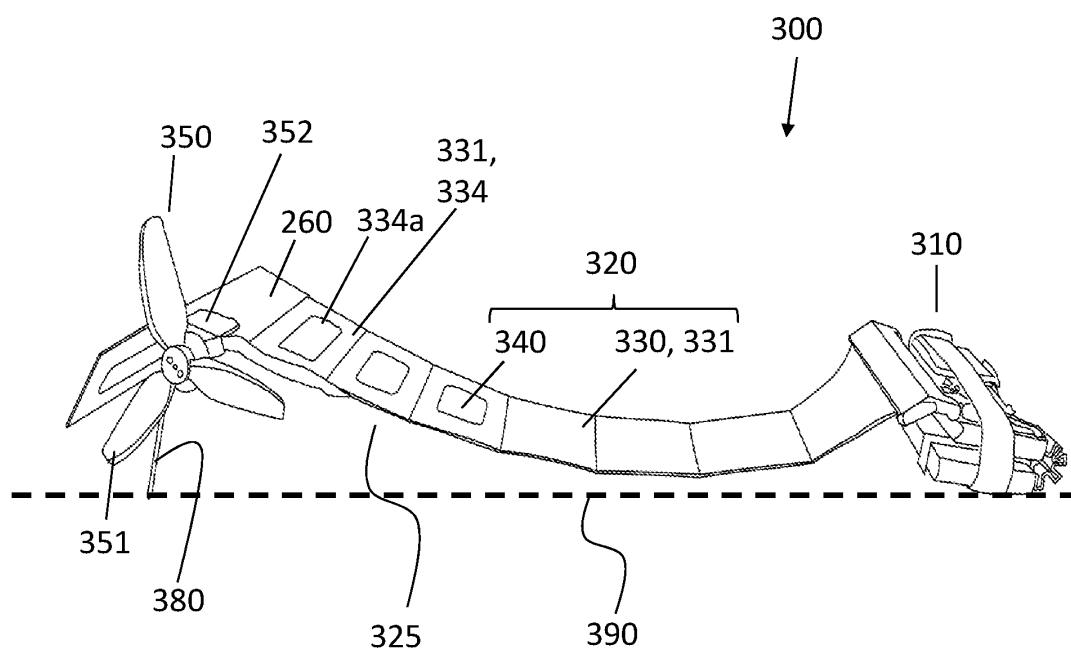


FIG. 3A

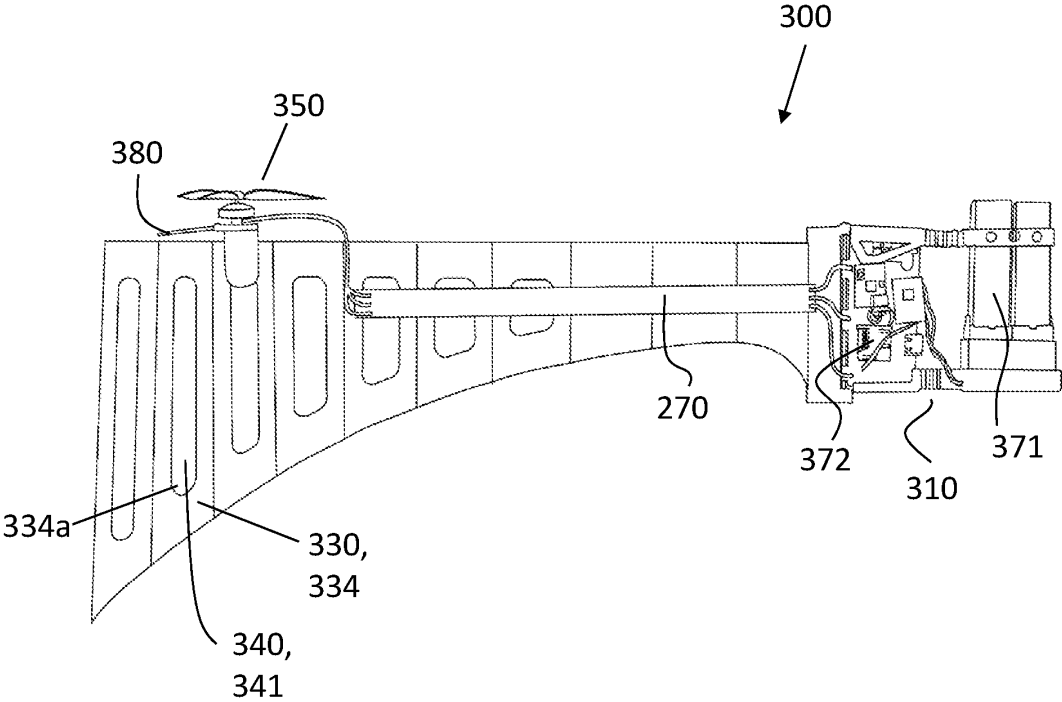


FIG. 3B

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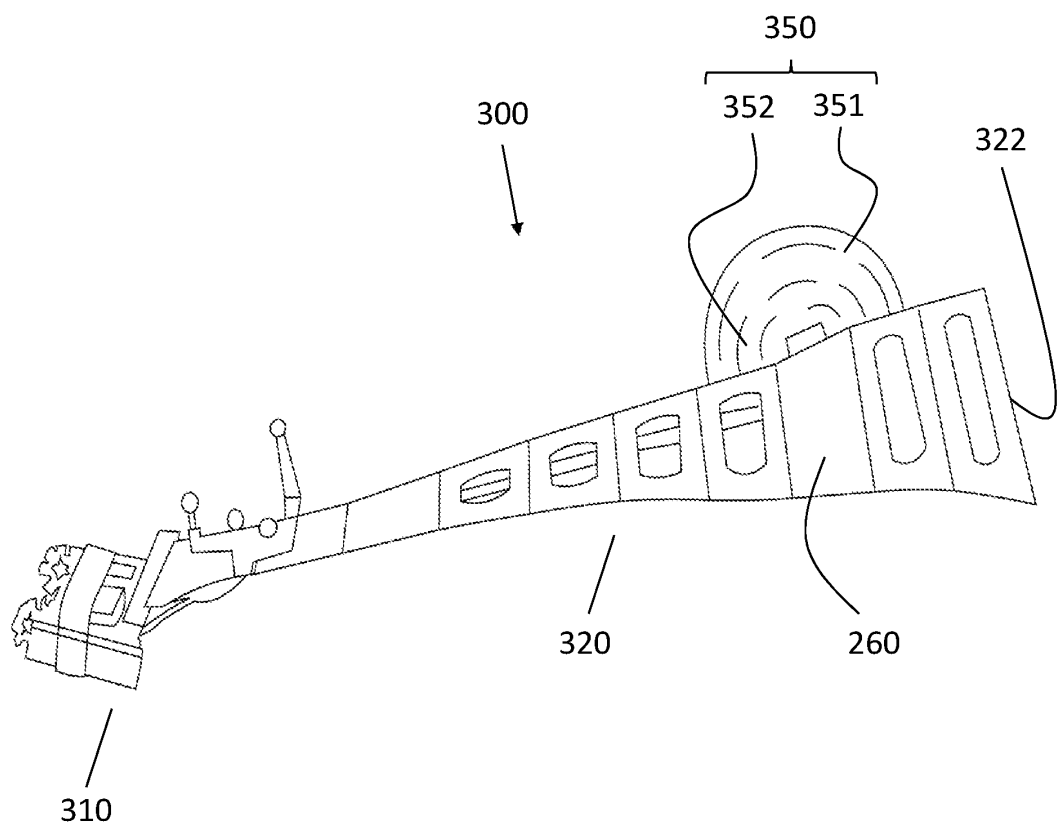


FIG. 3C

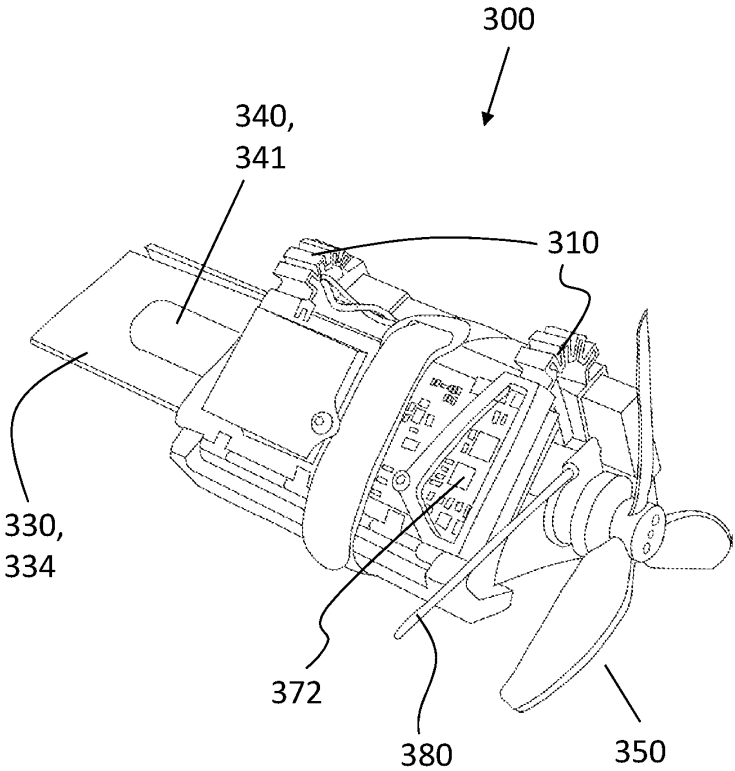


FIG. 3D

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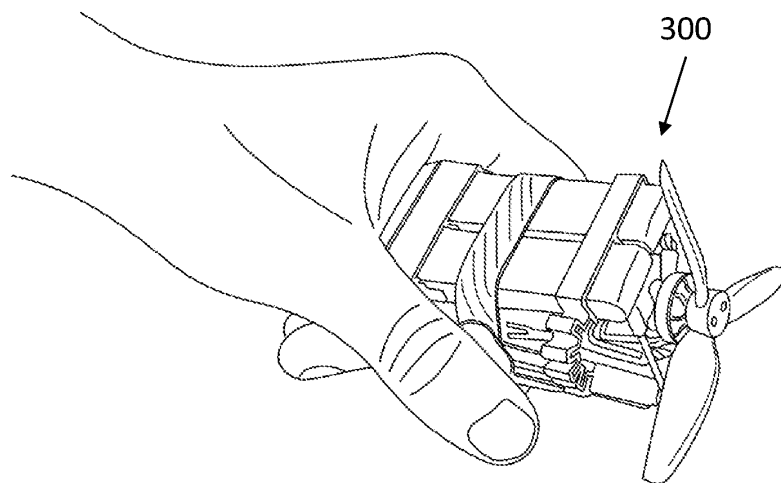


FIG. 3E

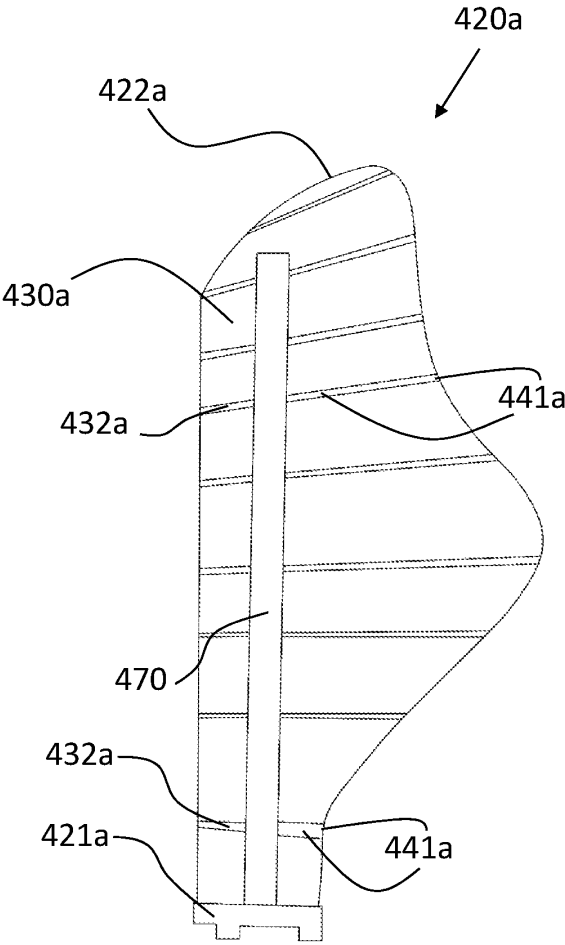


FIG. 4

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Table 1

Item	Name	Qty	Website
Processor	SparkFun MicroMod ESP32	1	sparkfun.com
Motor	ROBO RB 1202.5	1	getfpv.com
ESC	EMAX Bullet 30A	1	emaxmodel.com
Battery	450mAh 1S 30C	2	betafpv.com
RC	FrSky Pro Micro	1	frsky-rc.com

FIG. 5A

Table 2

Parameters	Value
Total Weight	69 g
Hover rotation speed	5.3 Hz
Hover current draw	1.3 A
Hover power draw	9.78 W
Wing length	32 cm
Wing area	229 cm ²
Wing aspect ratio	4.5
Mean chord length	71.3 cm
Flight time	16 min
Unfolded footprint	266.5 cm ²
Folded footprint	82.3 cm ²

FIG. 5B

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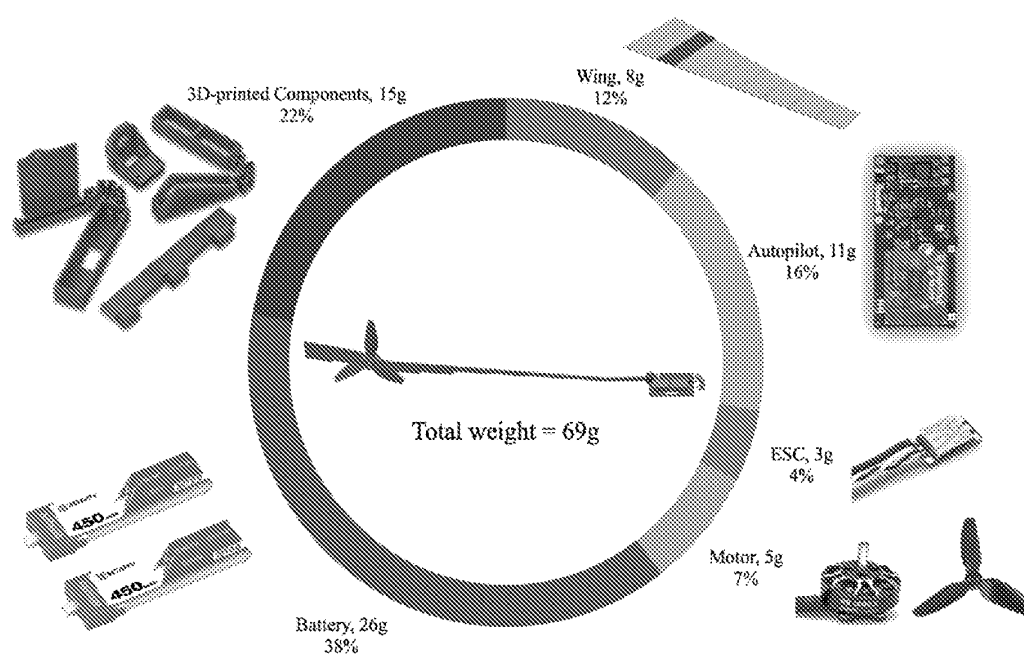


FIG. 5C

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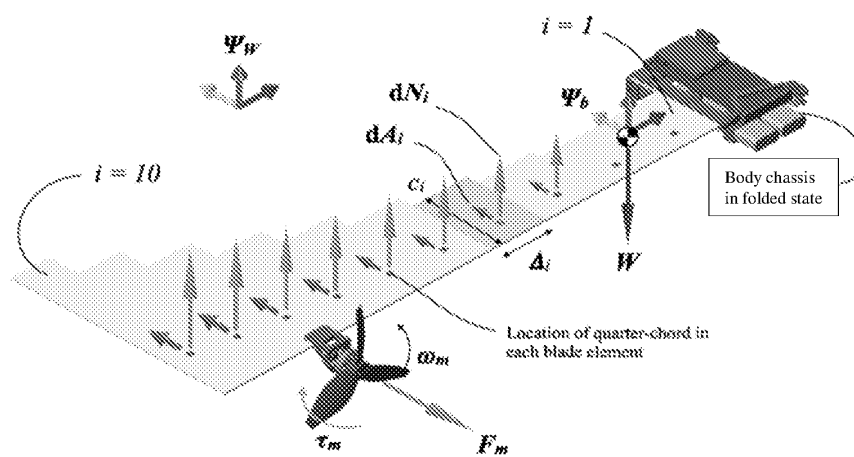


FIG. 6A

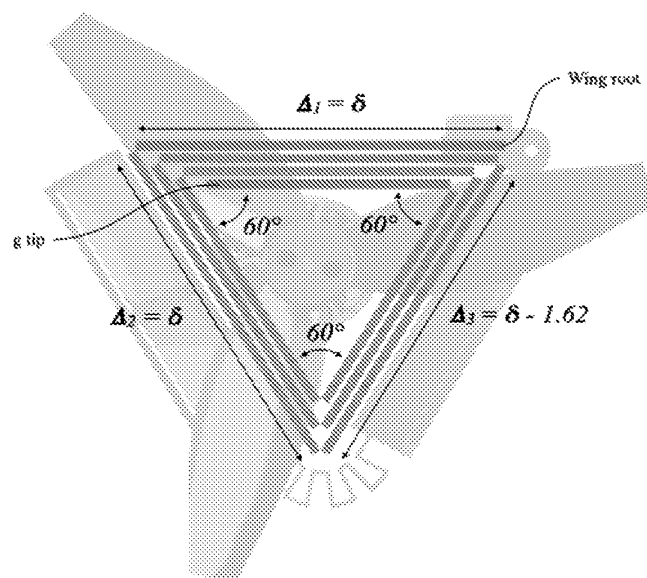


FIG. 6B

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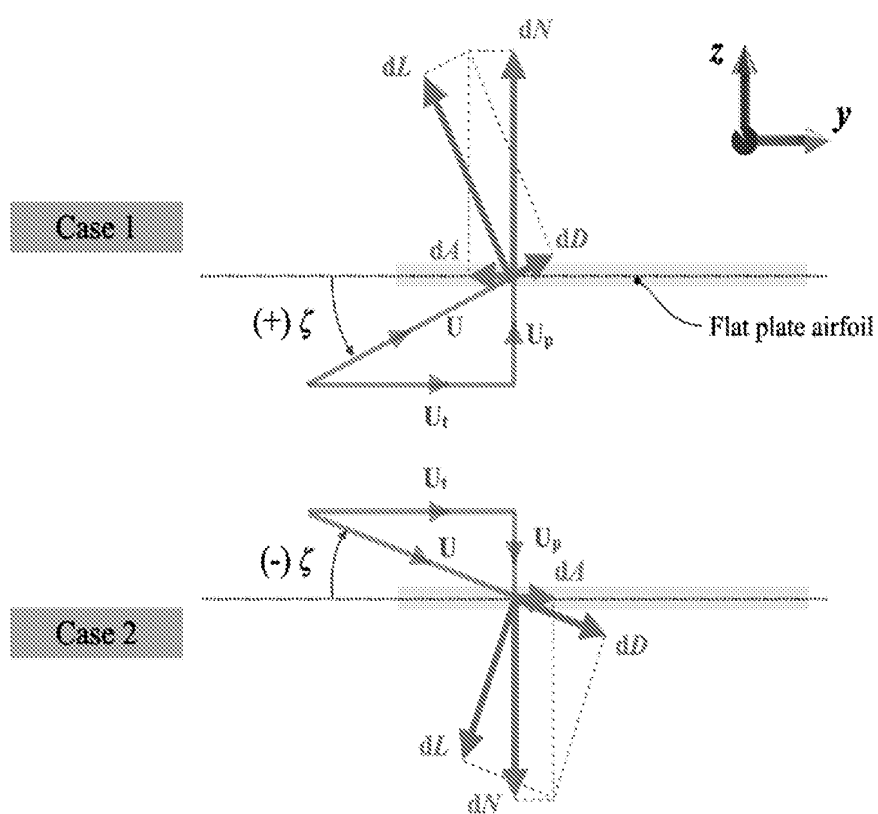


FIG. 7

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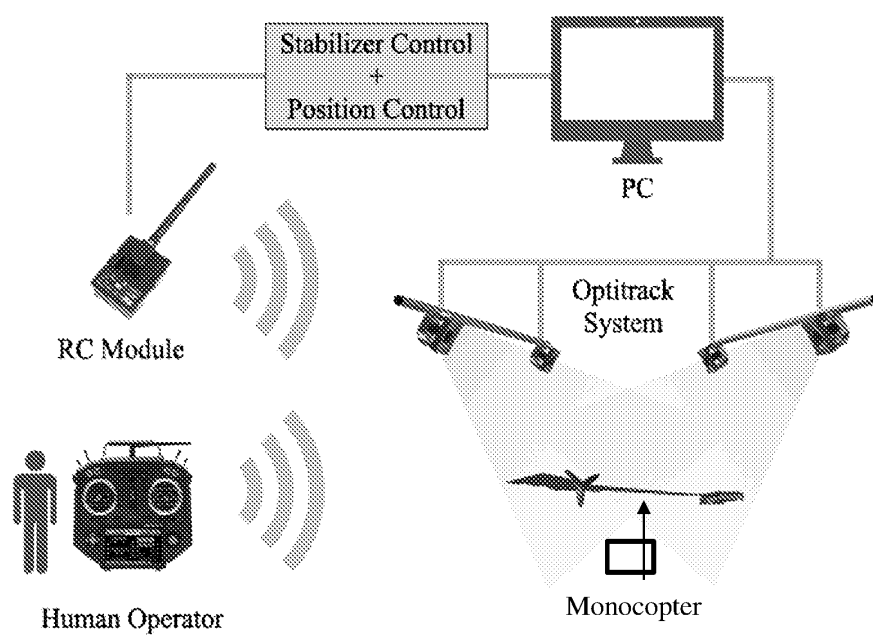


FIG. 8

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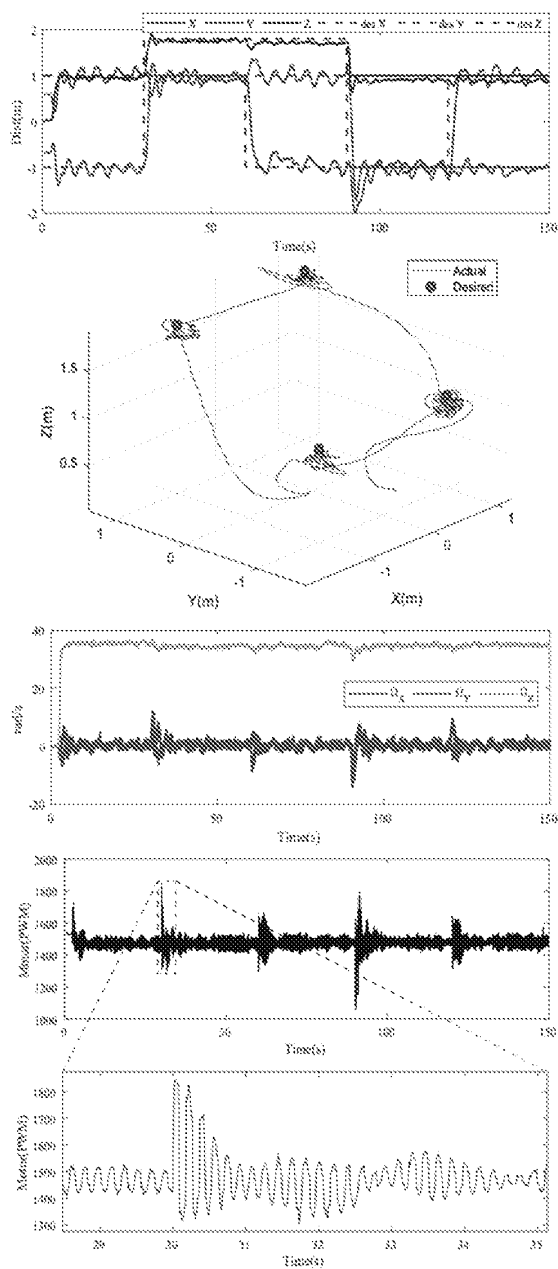


FIG. 9

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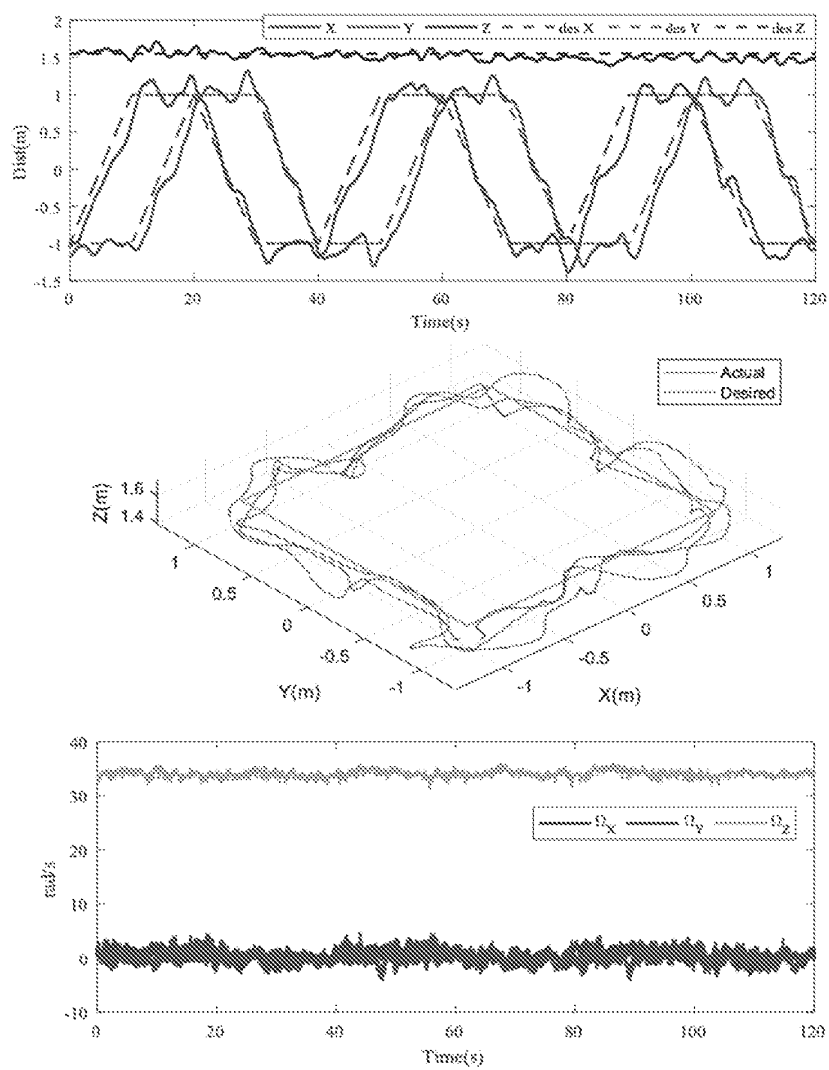


FIG. 10

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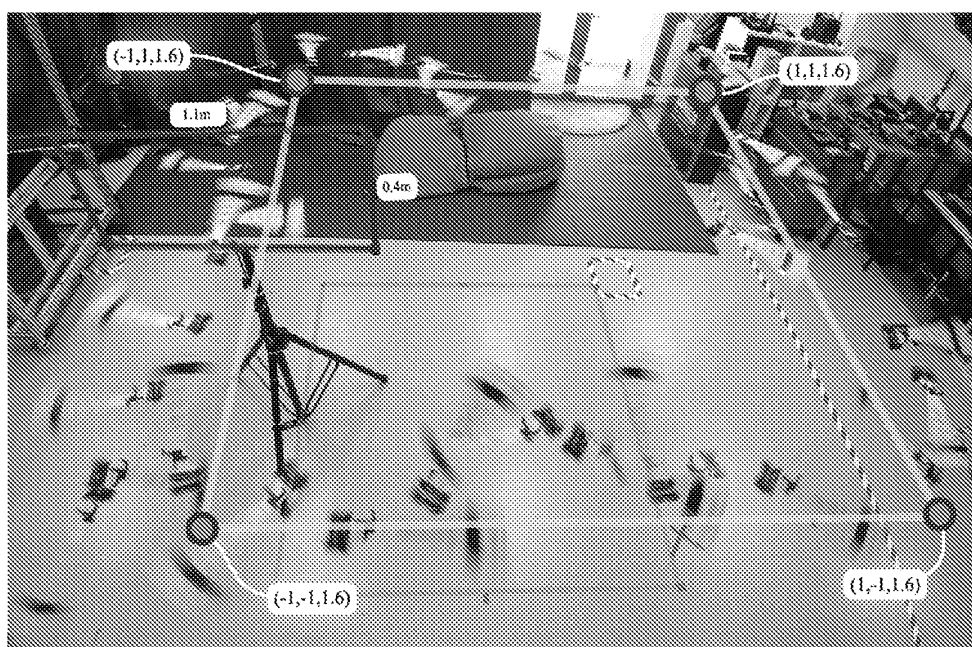


FIG. 11

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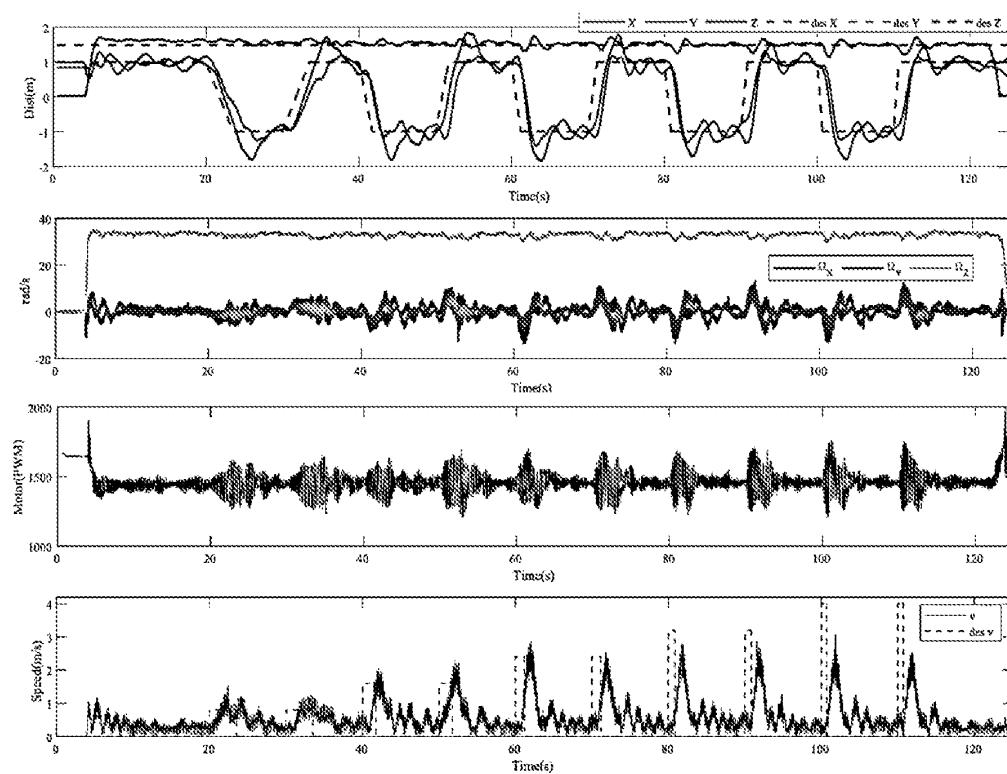


FIG. 12

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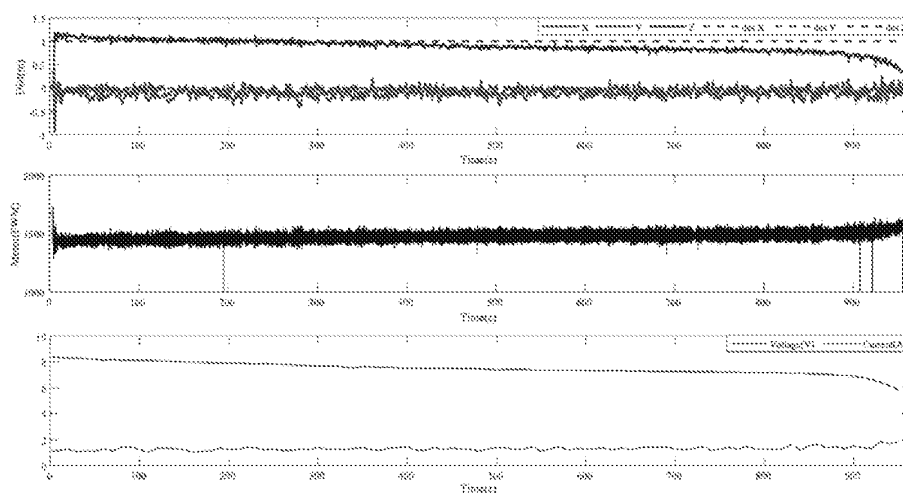


FIG. 13