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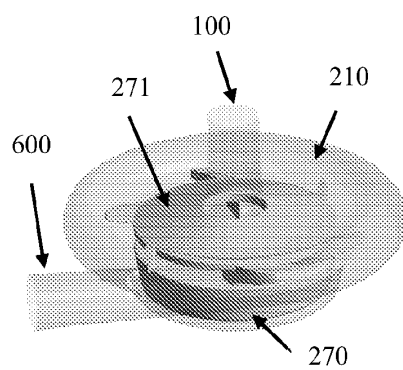


FIGURE 1

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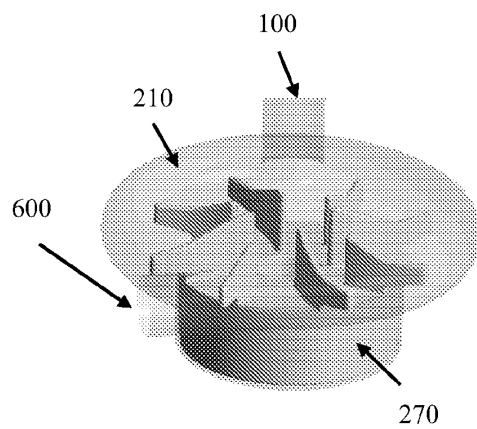


FIGURE 2

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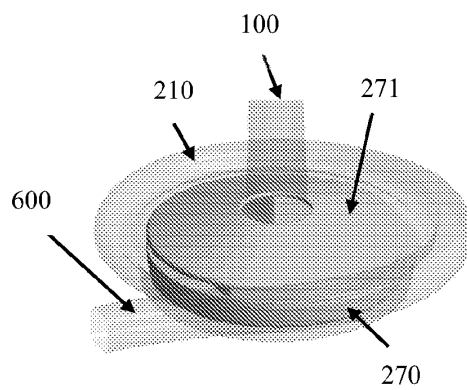


FIGURE 3

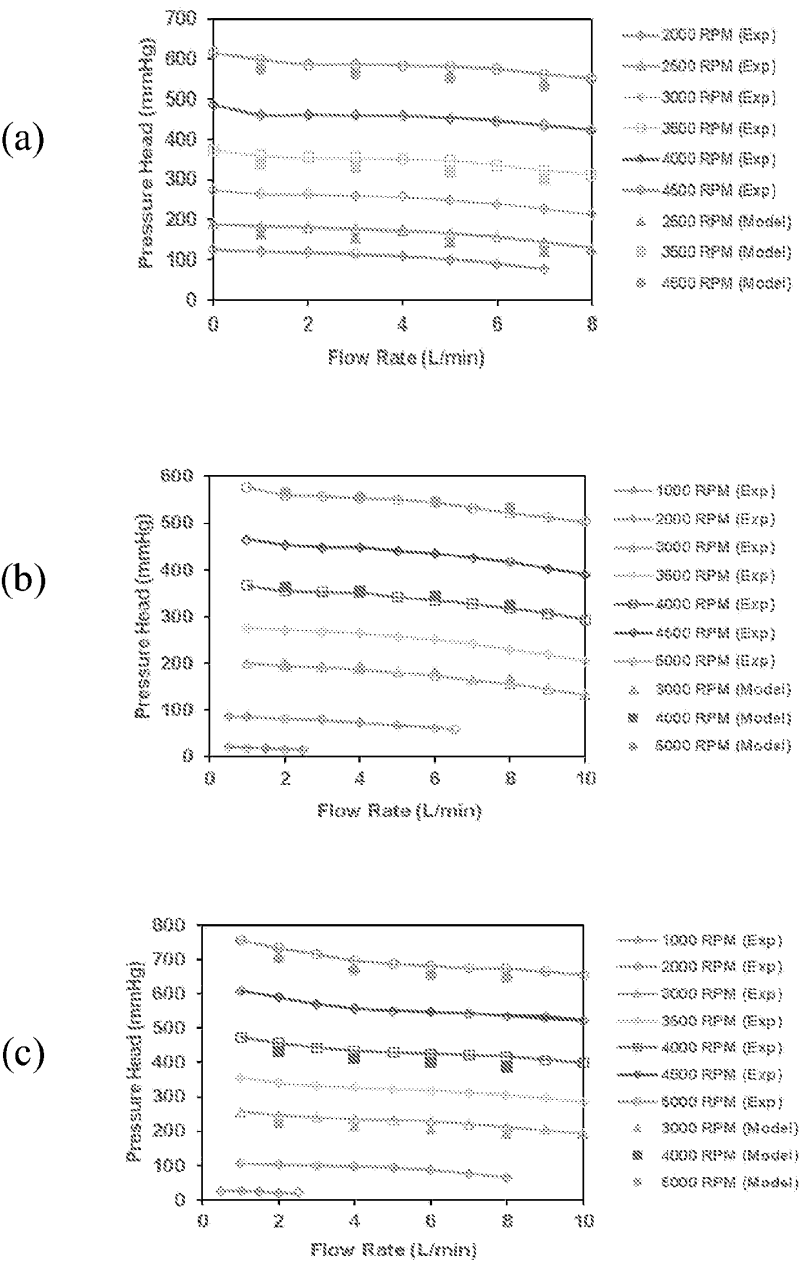


FIGURE 4

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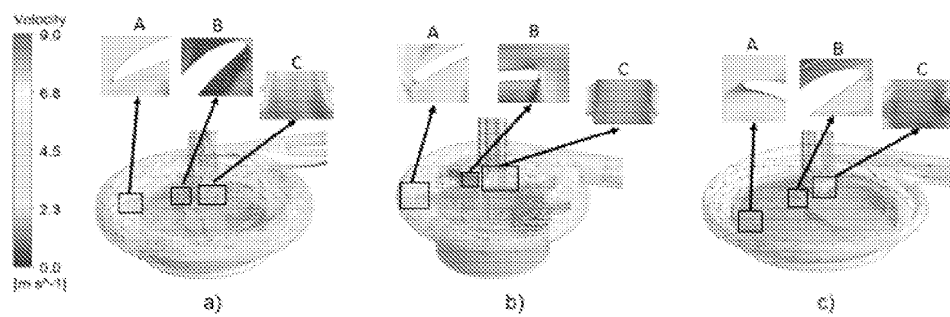


FIGURE 5

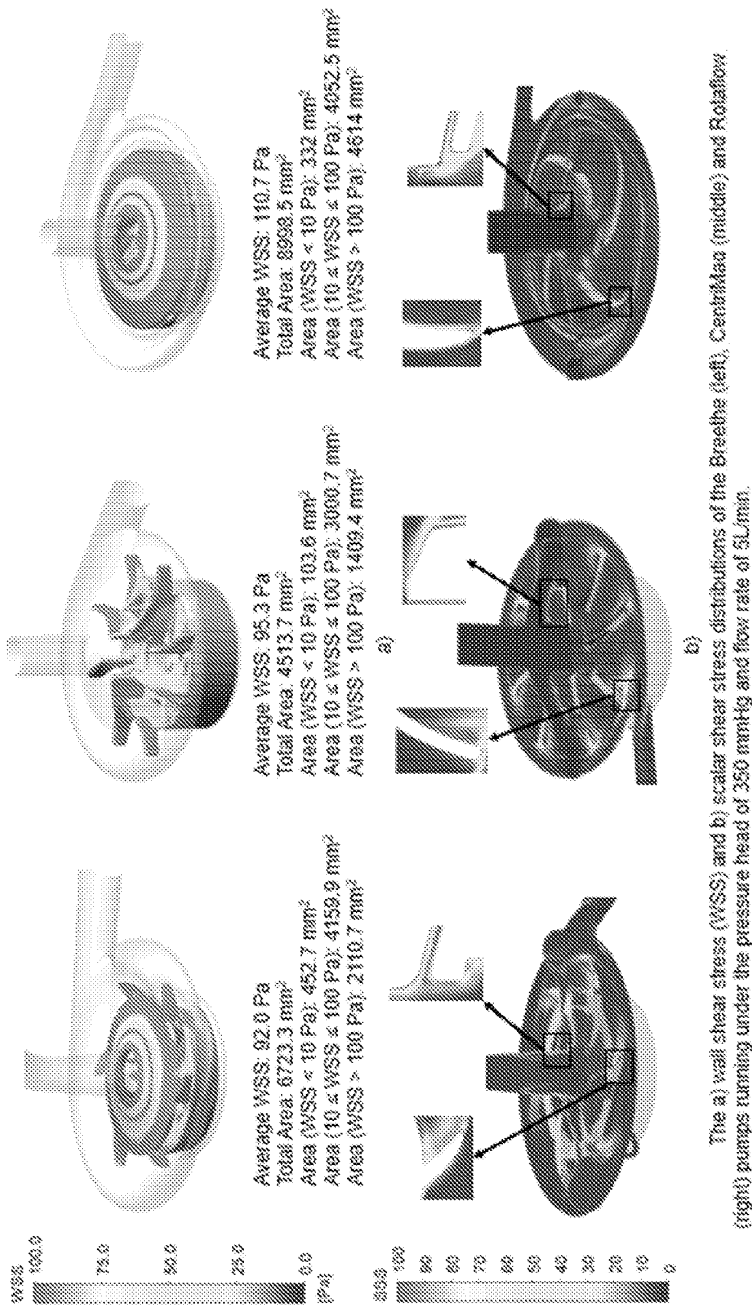
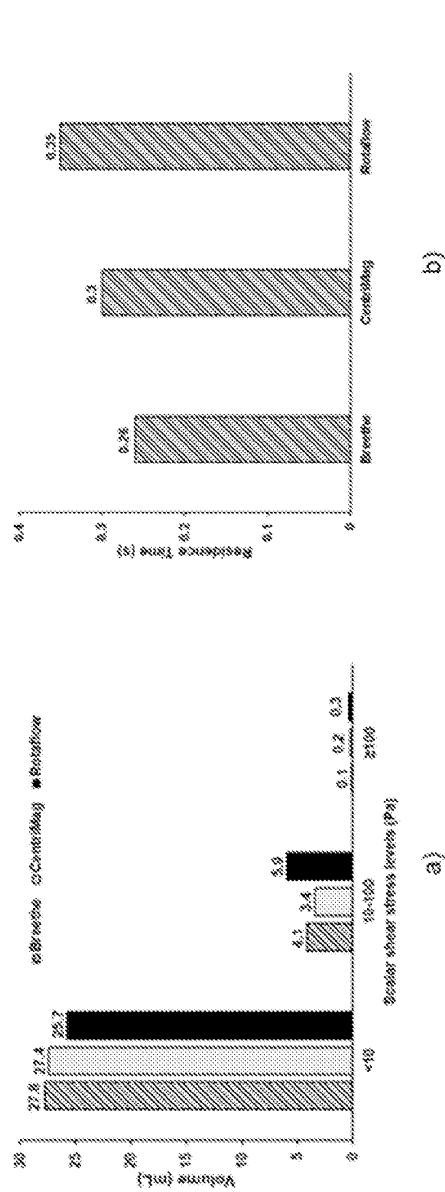


FIGURE 6



a) Scalar shear stress (SSS) and b) residence time histograms of the Breeze, Centriflao and Rotaflo pumps running under the pressure head of 350 mmHg and flow rate of 5L/min. The volume-averaged SSS of the three pumps were 9.6 Pa (Breeze), 9.3 Pa (Centriflao) and 12.6 Pa (Rotaflo).

FIGURE 7

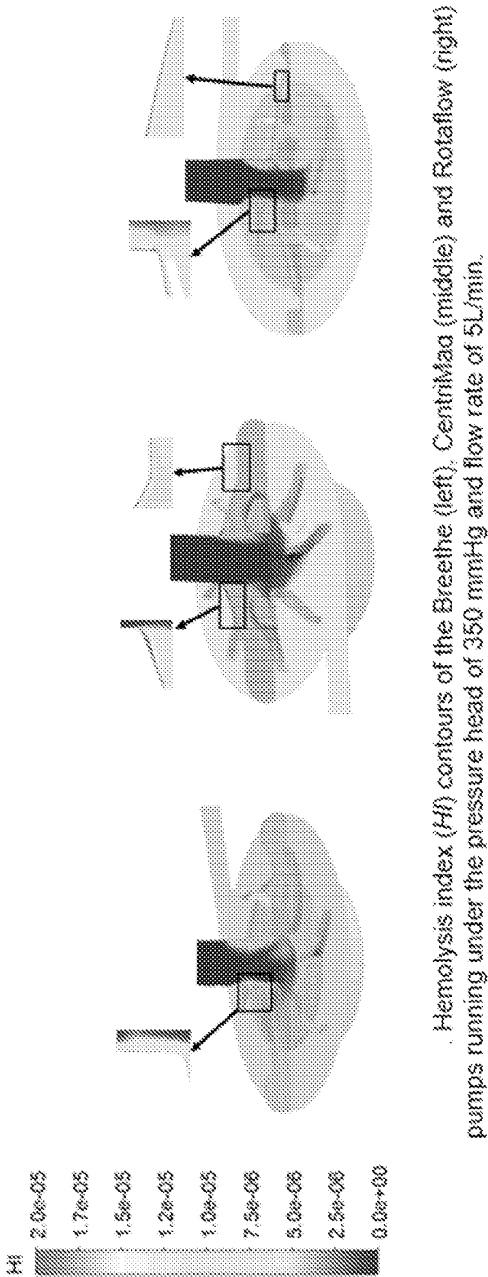


FIGURE 8

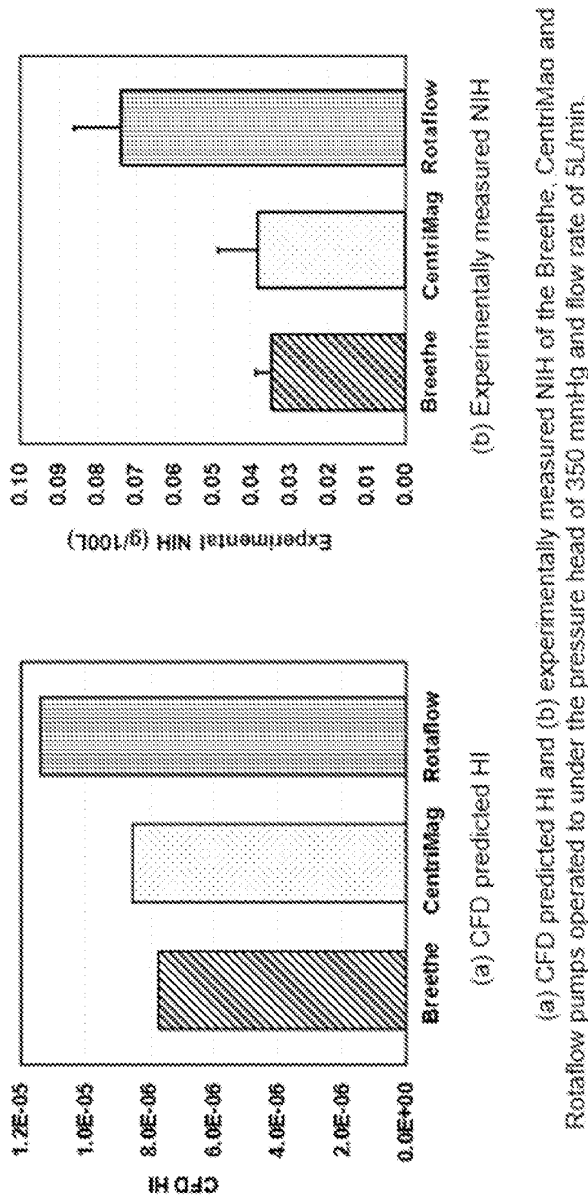


FIGURE 9



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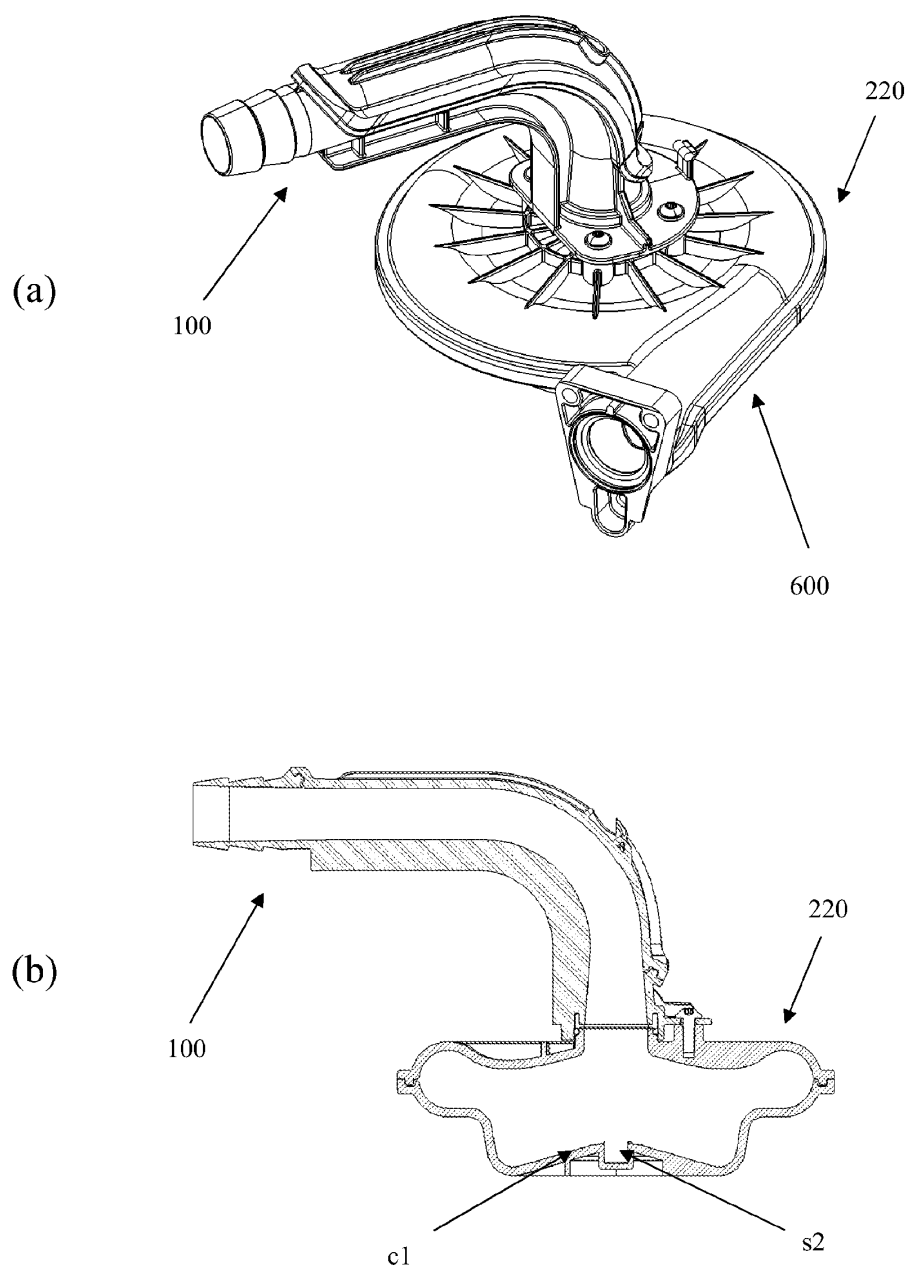


FIGURE 11

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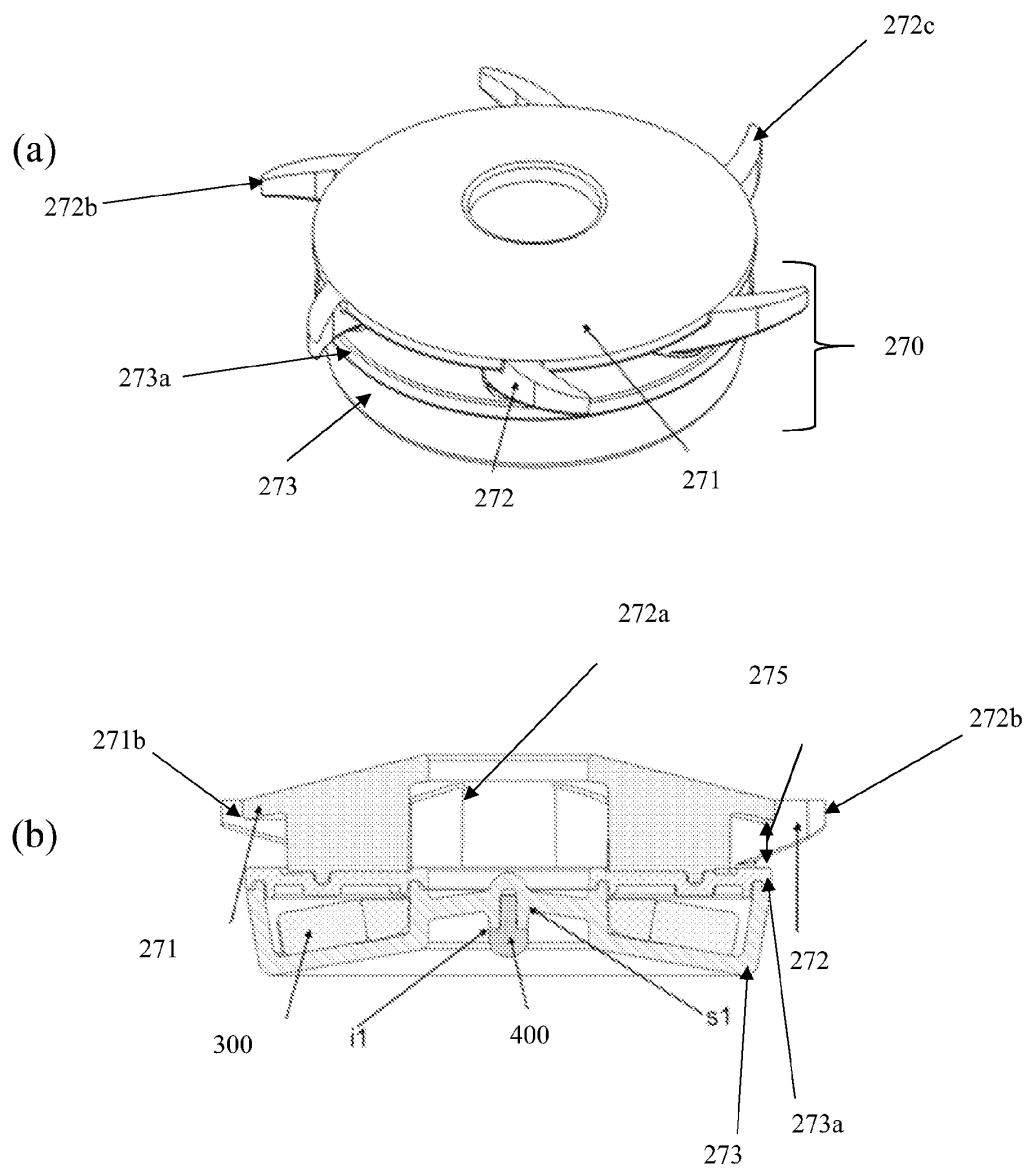


FIGURE 12

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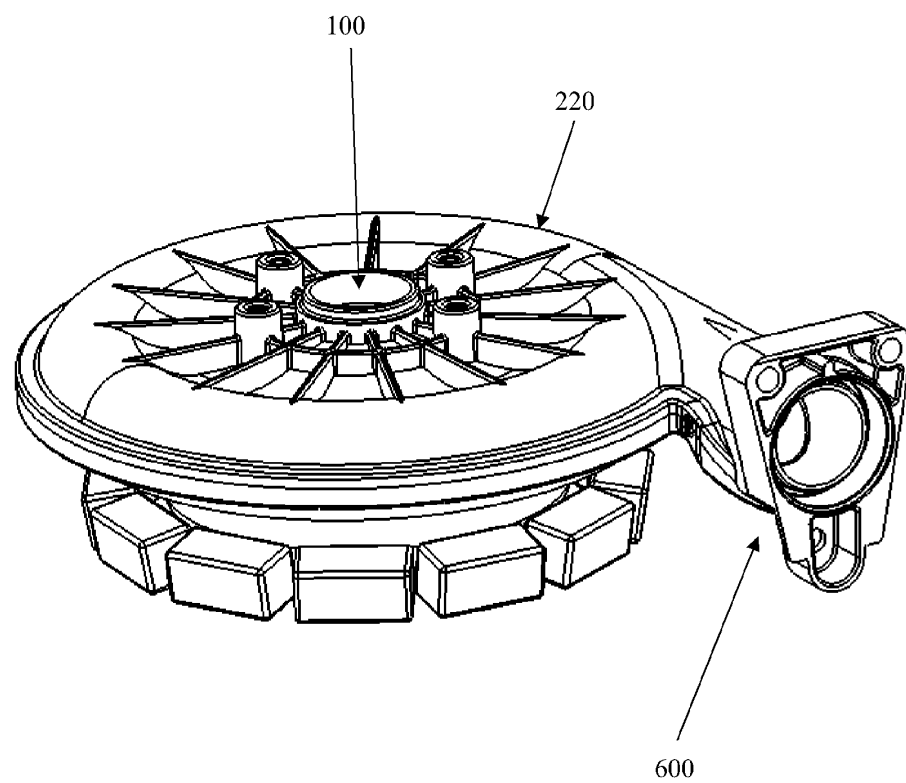


FIGURE 13

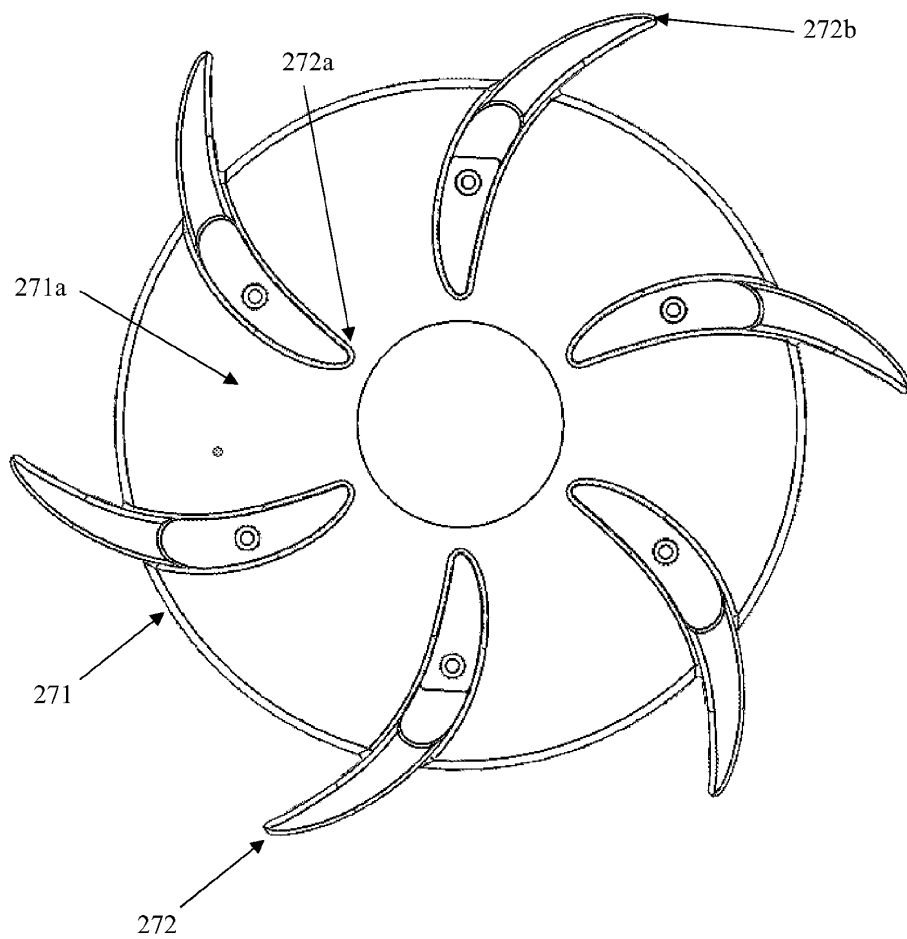


FIGURE 14

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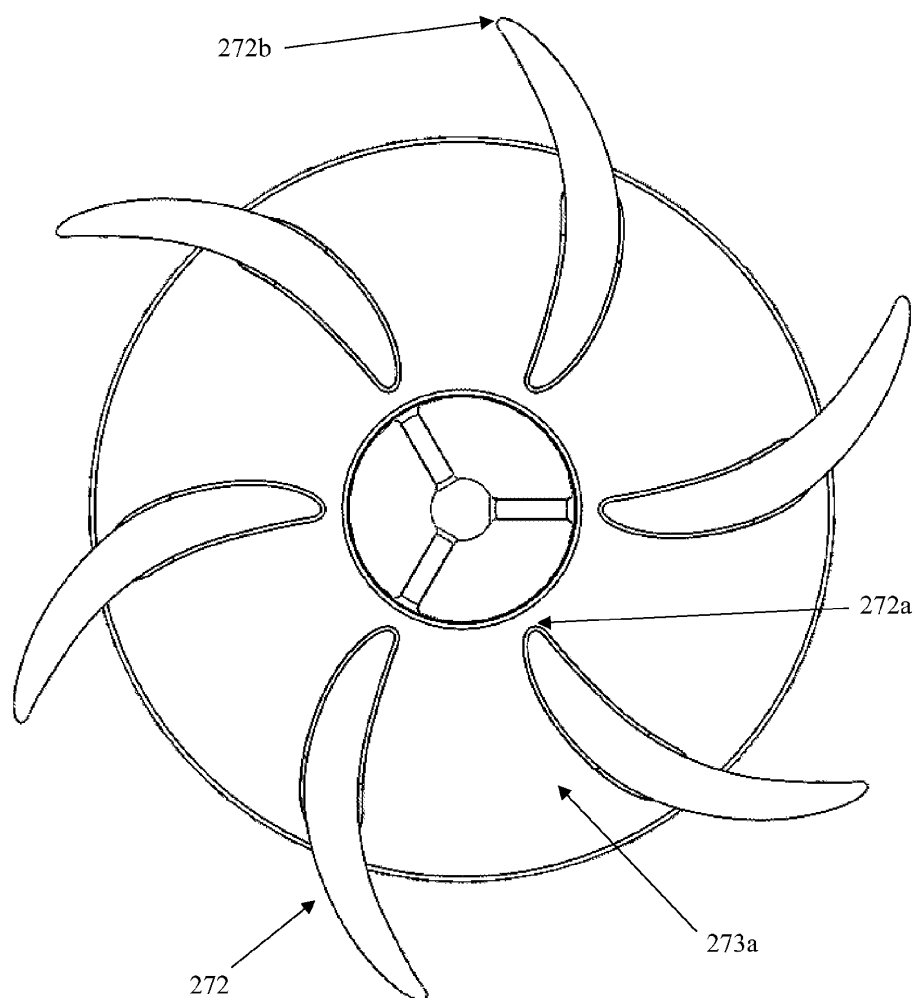


FIGURE 15

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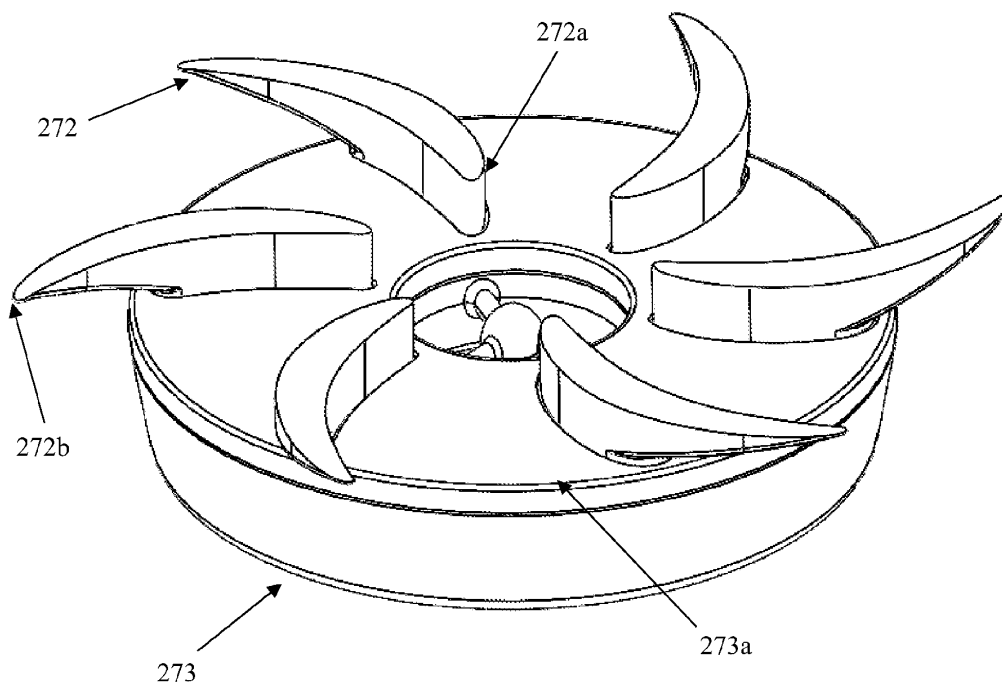


FIGURE 16

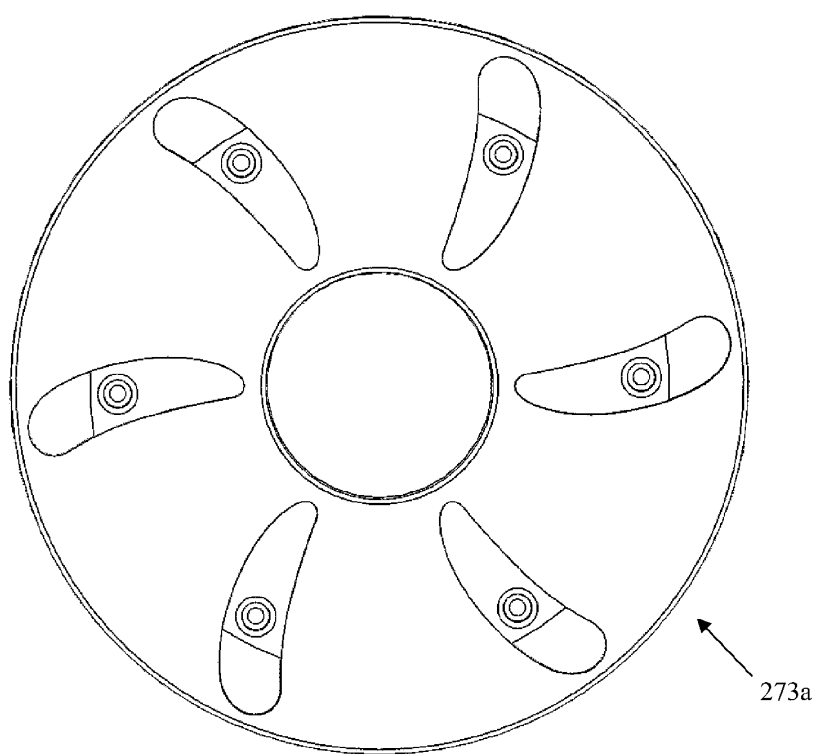


FIGURE 17

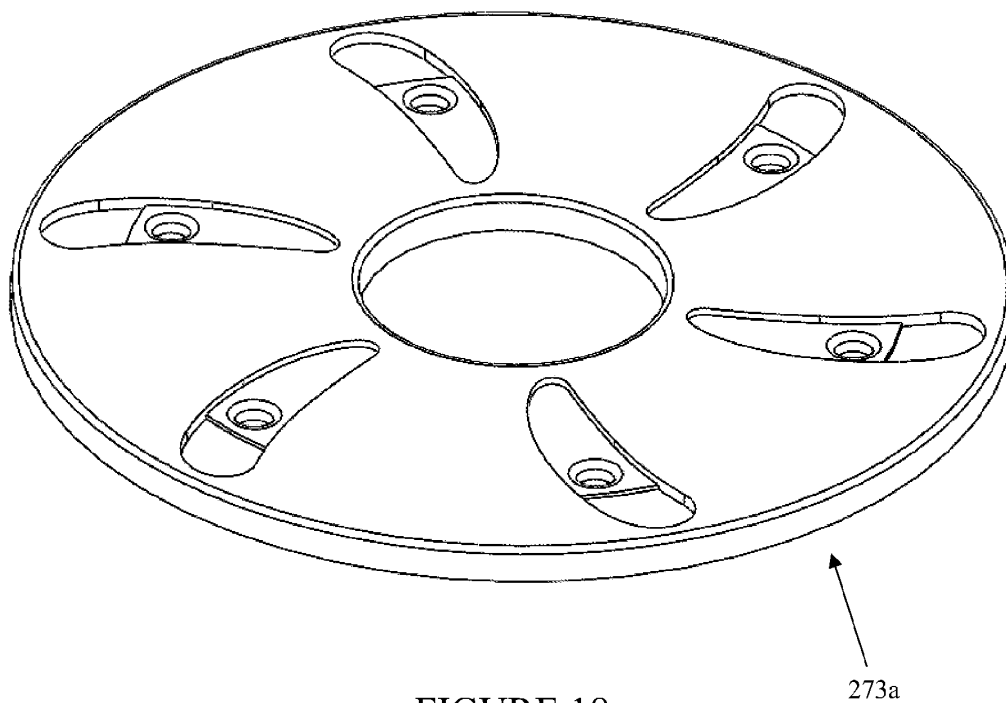


FIGURE 18

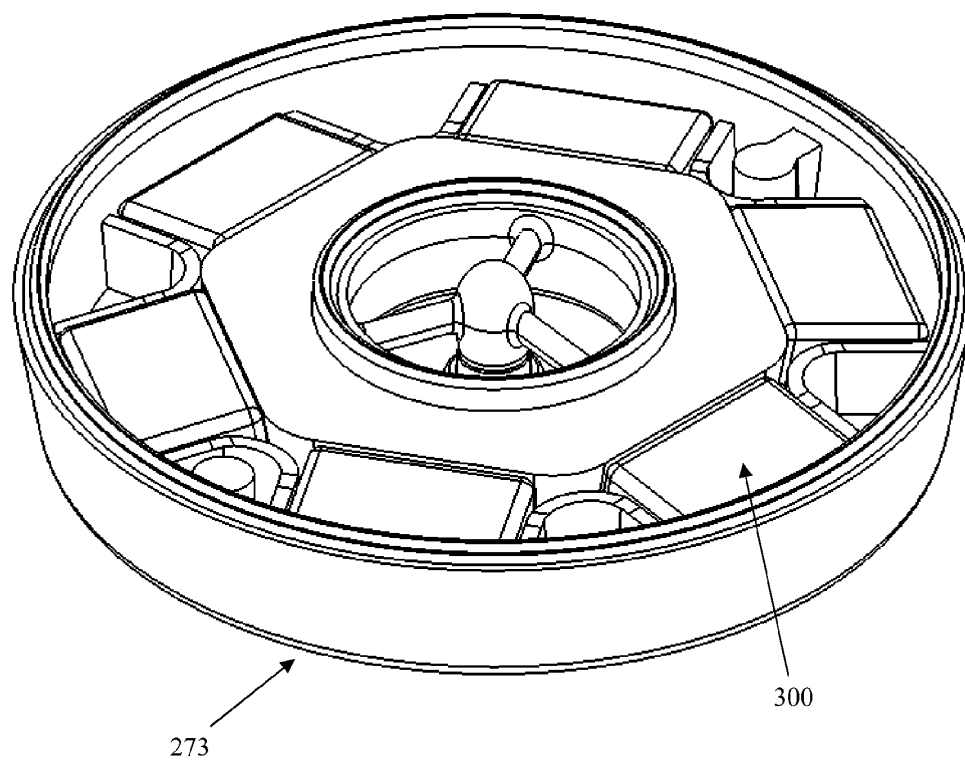


FIGURE 19

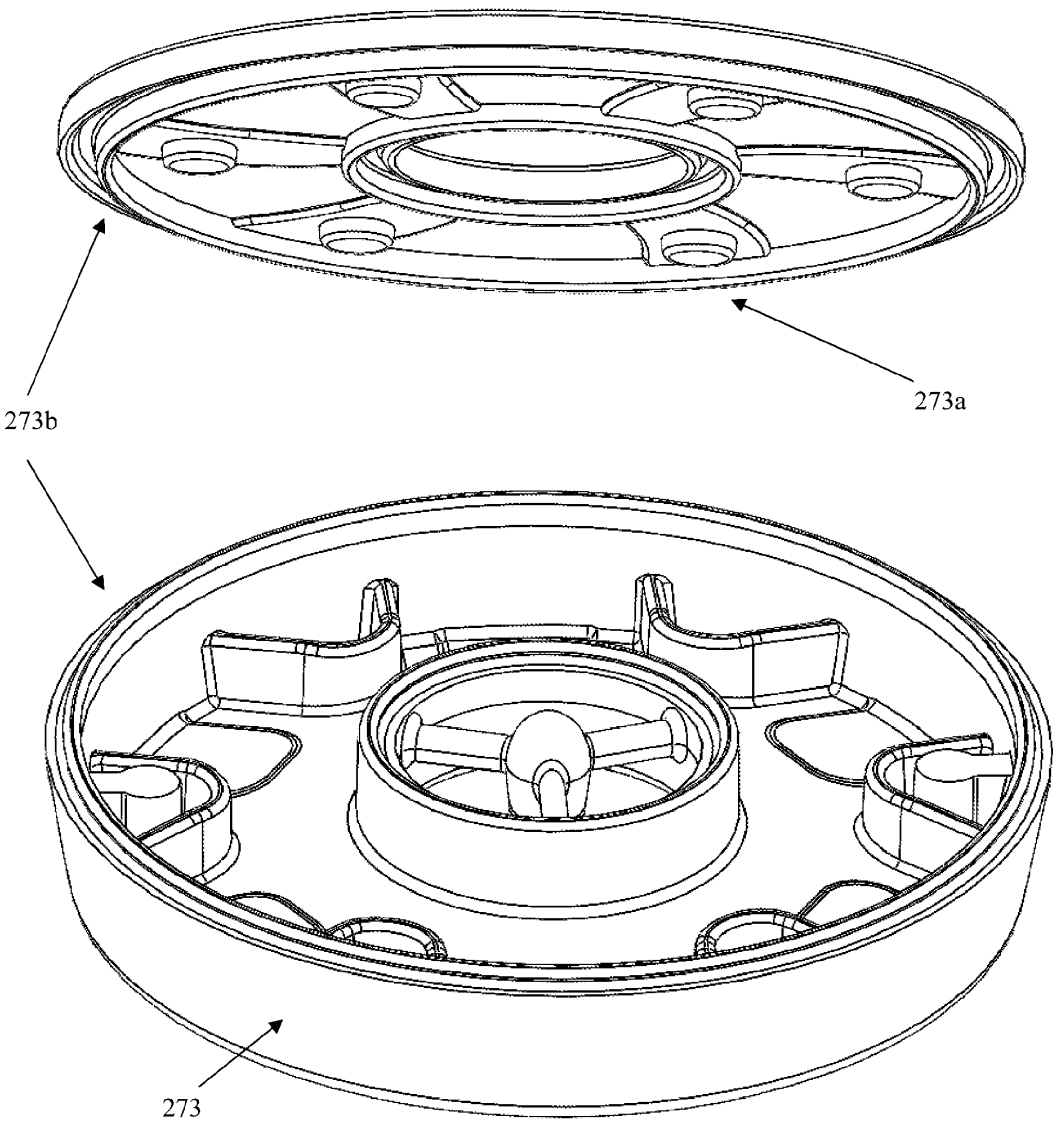


FIGURE 20

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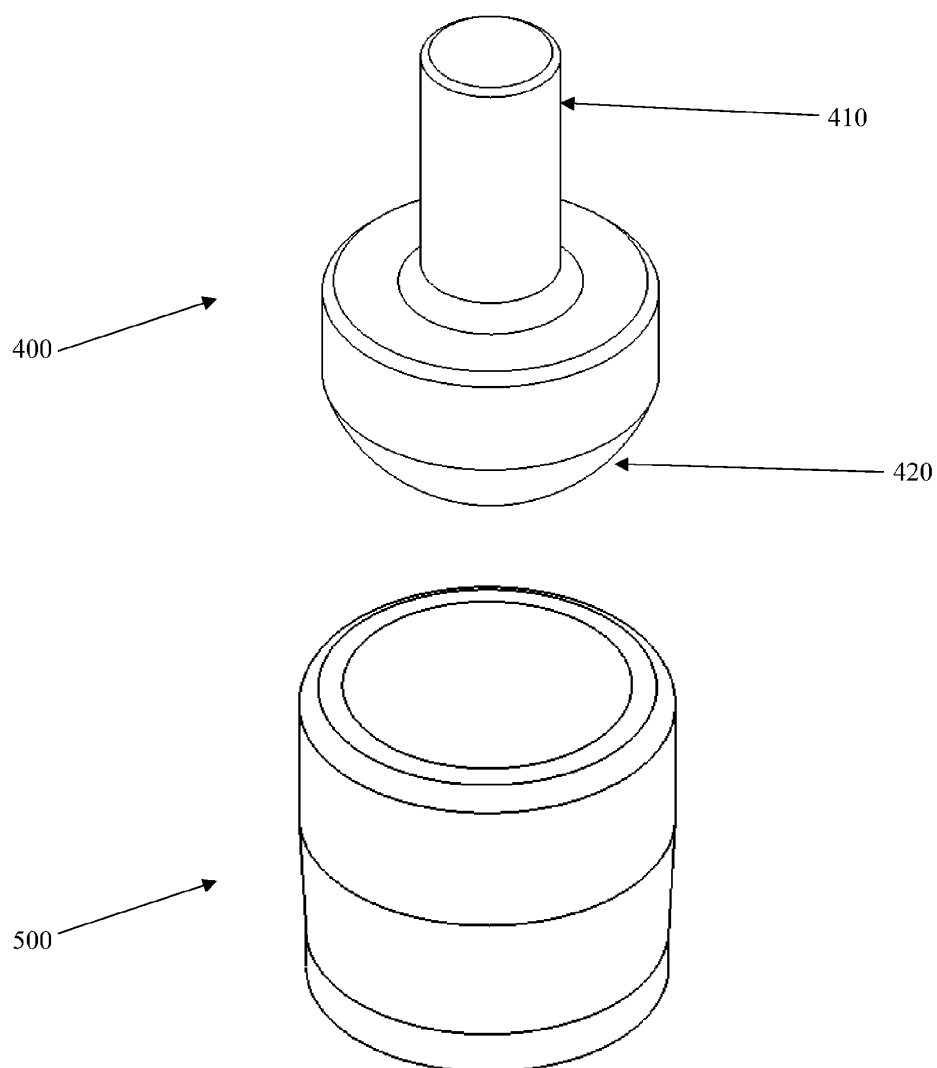


FIGURE 21

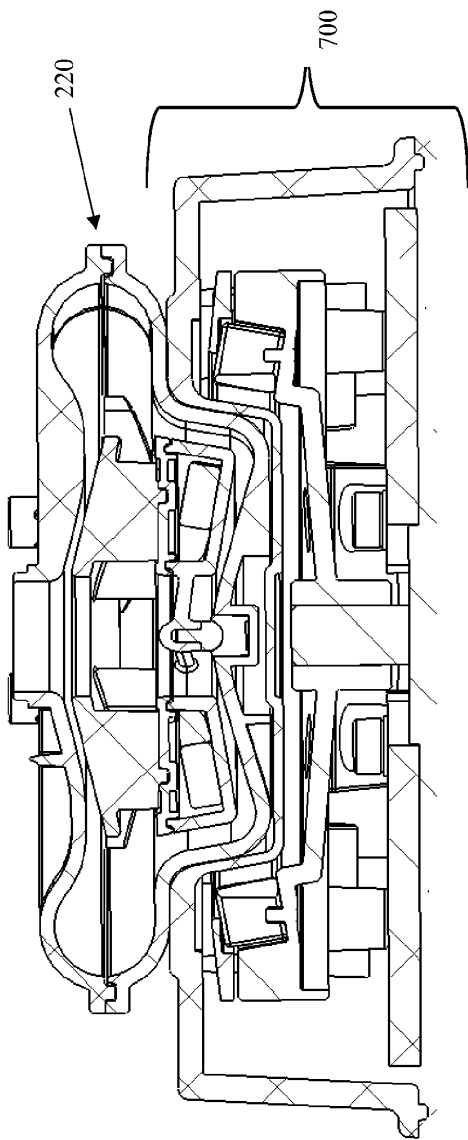
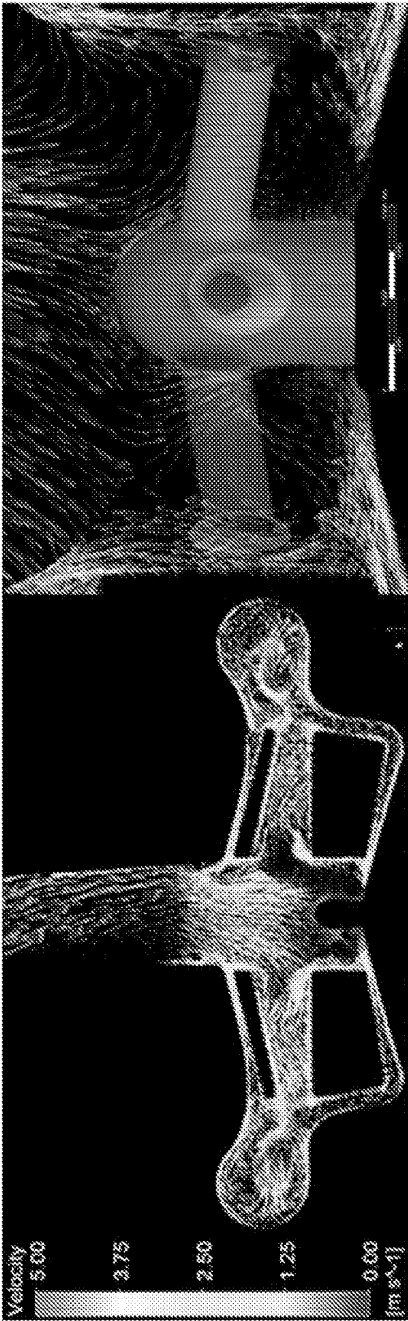


FIGURE 22



(b)

(a)

FIGURE 23