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Lang

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(54) **MICRO-ARRAY SURFACE FOR PASSIVE DRAG MODIFICATION**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 898 days.

This patent is subject to a terminal disclaimer.

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(52) **U.S. Cl.**
USPC **244/200.1**

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USPC 244/200, 200.1, 201, 198, 130, 199.4
See application file for complete search history.

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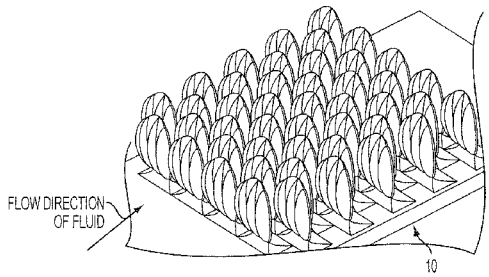
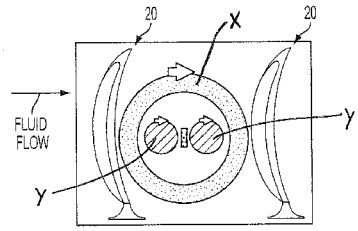
(57) **ABSTRACT**

A micro-array surface that provides for drag reduction. In one aspect, an aerodynamic or hydrodynamic wall surface that is configured to modify a fluid boundary layer on the surface comprises at least one array of micro-cavities formed therein the surface. In one example, the interaction of the micro-cavities with the boundary layer of the fluid can delay transition of the fluid over an identical smooth surface without the micro-cavities.

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