

(12) **United States Patent**
Mase et al.

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(54) **HONEYCOMB STRUCTURE AND METHOD FOR MANUFACTURING THE SAME**

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

A honeycomb structure includes a tubular honeycomb structure body including porous partition walls defining a plurality of cells, and an outer peripheral wall and a pair of electrode parts disposed on a side face of the honeycomb structure body, wherein the honeycomb structure body has electric resistivity of 1 to 200 Ωcm, each electrode part has a belt-like shape extending in an extending direction of the cells, each electrode part is placed on an opposite side each other across a center of the honeycomb structure body, the honeycomb structure body includes an inflow-side area that is an area on the inflow-side and covering the inflow end face, and an outflow-side area that is an area other than the inflow-side area, and the inflow-side area is made of a material having electric resistivity lower than electric resistivity of a material of the outflow-side area.

(52) **U.S. Cl.**

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