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**Cohen et al.**

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(54) **FLOW CONTROL GRID**

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| *F15B 13/043* | (2006.01) |
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(52) **U.S. Cl.**

CPC ..... ***B01D 53/8631*** (2013.01); *F01N 3/2892* (2013.01); *F01N 13/0093* (2014.06); *F01N 13/0097* (2014.06); *F01N 2590/10* (2013.01); *F15B 13/0402* (2013.01); *F15B 13/0436* (2013.01); *F15B 2013/0409* (2013.01); *F15B 2211/30525* (2013.01); *F15B 2211/329* (2013.01); *F15B 2211/634* (2013.01)

(58) **Field of Classification Search**

CPC F01N 3/2892; B01D 46/002; B01D 46/0045; B01D 2258/0283; F15D 1/04

USPC ..... 138/37, 39; 422/176

See application file for complete search history.

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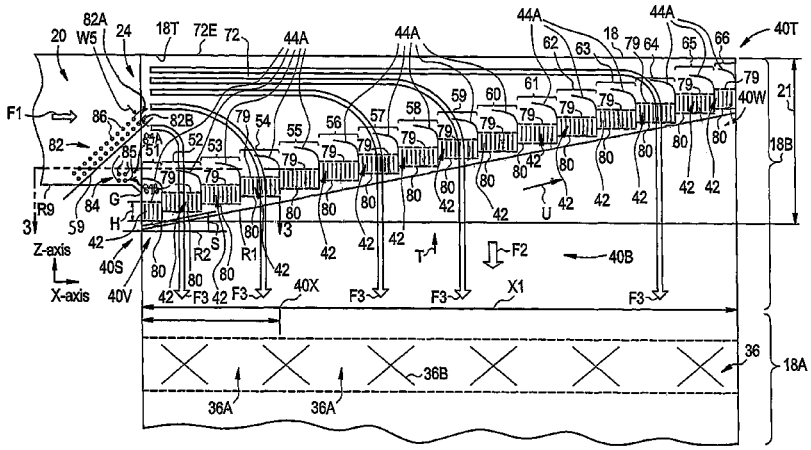
(57) **ABSTRACT**

A flow control grid includes a plurality of channel assemblies connected to one another. Each of the plurality of channel assemblies defines a flow straightening section and a flow turning section. The flow turning section has an arcuate segment and a first substantially flat segment. The first substantially flat segment is positioned in the flow straightening section. The arcuate segment extends outwardly from the flow straightening section.

**13 Claims, 6 Drawing Sheets**