IN THE CLAIMS

1. A filter media comprising flat sheets that are corrugated into a matrix comprising repeating airflow channels stacked in parallel, wherein air flows through the channels and airborne contaminants are captured on the sidewalls of the channels, wherein an active electrostatic field is applied to the matrix.

2. An active field polarized media air cleaner comprising:

a conductive screen;

a corrugated sheet, wherein the corrugated sheet has channels therethough that allow for passage of air;

a high-voltage power supply connected to the conductive screen, wherein the voltage applied to the conductive screen creates a polarizing field upstream of the corrugated sheet that charges particles passing through the field.

3. The active field polarized media air cleaner of claim 2, wherein the charged particles are captured on sidewalls of the corrugated sheet.

4. The active field polarized media air cleaner of claim 2, wherein the conductive screen is located between two filter media, one of which is the corrugated sheet.

5. An active field polarized media air cleaner comprising:

a corrugated sheet, wherein the corrugated sheet has channels therethough that allow for passage of air;

a high-voltage power supply connected to conductive member embedded within the corrugated sheet, wherein the voltage applied to the conductive conductive member creates a polarizing field within the corrugated sheet that charges particles passing through the field.

6. The active field polarize media air cleaner of claim 5, wherein the member is a sheet.

7. The active field polarize media air cleaner of claim 5, wherein the member is a band.