

Title (en)
Ionizing bar and method of its fabrication

Title (de)
Ionisationsstab und Verfahren zu dessen Herstellung

Title (fr)
Barre d'ionisation et son procédé de fabrication

Publication
EP 1583404 B1 20070523 (EN)

Application
EP 05002597 A 20000310

Priority
• EP 00913856 A 20000310
• US 12423199 P 19990312
• US 51915900 A 20000306

Abstract (en)
[origin: EP1583404A1] An ionizing bar assembly having a plastic housing with two individual ionizing electrode modules disposed on opposite sides. The ionizing electrode modules each include a plurality of printed circuit boards having signal traces thereon with ionizing electrodes or pins extending therefrom. The printed circuit boards are electrically coupled together by conductive rods or tubing positioned adjacent to the traces on the boards and soldered at various positions along the traces. The ionizing electrode modules are placed at opposing angles and are offset laterally from each other in such a way that the ionizing electrodes or pins extending from one module are located between the ionizing electrodes or pins extending from the opposite module, with the tips of each aligned along a common central linear axis. Each ionizing bar assembly preferably slides into recesses of two end blocks, which are each located at opposite ends of the bar assembly. The end blocks each include two pin-socket assemblies. The pin side of the pin-socket assemblies are designed to engage with the conductive rods or tubing when the ionizing bar assembly slides into the recesses of the end blocks. The sockets of the pin-socket assemblies are designed to removeably couple to a high voltage power source. Alternately, they may be used for coupling to dual cabling for daisy chaining multiple ionizing bars together such that a total length of any desired bar length may be achieved by adding or removing ionizing bar assemblies.

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