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(71)**Name of Applicant :**
1)K. RAMESH
Address of Applicant :MONARCH INDUSTRIAL PRODUCTS PVT LTD, SIDCO, THENI - 625 531, TAMIL NADU, INDIA Tamil Nadu India
2)Dr. S. VENKATANARAYANAN
(72)**Name of Inventor :**
1)K. RAMESH
2)Dr. S. VENKATANARAYANAN

(57) Abstract :
ESD conductive flooring systems provide the lowest charge generation and quickest charge dissipation for an ESD production environment. The flooring is grounded through a copper strip which connects to the flooring to a grounded connection such as a wall outlet. One copper grounding strip is required for every 1000 sq. ft. of ESD flooring. Electrically conductive flooring is sometimes (semi-accurately) referred to as anti-static conductive flooring, which is defined by an electric resistance of between 10A4 and 10A15 ohms. Turboelectric charges generated by moving feet dissipate quickly through a grounded surface which is slightly conductive but not overtly. Electrostatic discharge (ESD) can endanger the quality and functionality of your important electronics. When electronic components are produced or installed they need to be effectively protected by electrostatic dissipative floorings. This quickly leads to high consequential costs for you because ESD protection has failed during the production process. In industry, loads are usually moved with forklifts; lift trucks or goods transportation systems. In order to enable conductivity across the whole surface of some flooring, special coatings or waxes are needed. This layer is usually only a few micrometers thick and can therefore wear out during normal use. This means that full conductivity across the whole surface is no longer guaranteed and the surface needs to be recoated. The removal of the old coating and application of a new one more often than not entails high costs, and downtimes.ESD Floor Systems are used in industries such as electronics and high-technology where static electricity would pose a problem. Unlike a conductive wax finish, which can lose electrical properties shortly after application, an ESD floor will be dissipative for many years. ESD floors consist of multiple layers. A sealant is applied to the existing concrete or tile floor to create a strong base for the other layers of the floor system. The conductive primer is applied to the sealant to absorb and transport the current to the ground. Lastly, a dis. .pative topcoat is applied to the floor as the final finish coat.

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