

Improved Electric Grid Resistor Having Stainless Steel Resistive Elements

Abstract

An improved electric grid resistor for braking mobile machines having resistive elements being supported between two flame retardant supports. An MS rod passes through the punched holes in the said resistive elements. A porcelain pipe runs through the said ring supports holding them in position. Two stainless steel connectors welded or bolted to the starting end of the first resistive element strip and the finishing end of the last resistive element strip. Two flame retardant supports through which the said resistive elements are brought through on either sides. Two heavy gauge end covers bolted on to the said flame retardant supports. The said improved electric grid resistor wherein the said resistive elements are made of austenitic stainless steel containing 16 to 20 per cent chromium and 6 to 22 per cent nickel and/or ferritic stainless steel containing 12 to 30 per cent chromium and without any nickel. The said resistive elements are made of the said chemical substances in such proportion so as to achieve desired resistance value and mechanical strength.

Figure 1