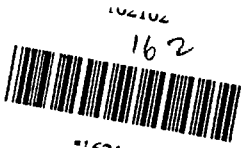




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SURGE LIGHTNING PROTECTION DEVICE



162162

ABSTRACT

A lightning surge protector 10 configured for use with coaxial lines 14 is disclosed. The lightning surge protector 10 includes an inner conductor 20 comprising two conductive portions 28, 30 mechanically and capacitively coupled together, and displaced from one another, by a dielectric portion 32, 432 which may be injection molded or snapped onto the conductive portions 28, 30. Insulative portions 22, 24 extend between the inner conductor 20 and an outer conductor 18 to electrically insulate the inner conductor 20 from the outer conductor 18. An inductor 26 inductively couples the inner conductor 20 to the outer conductor 18 and is coupled between the two using a solderless connection. The inductor 26 has a bent end 90 which may be inserted in a hole 88 in the inner conductor 20 and a straight end 388 that may be staked in a hole 368 in the outer conductor 18. The outer conductor 18 is formed from a case 34 and a plug 36 which are frictionally coupled. The configuration of the components 18, 20, 22, 24, 26, 28, 30 allows for components 18, 20, 22, 24, 26, 28, 30 to be assembled into modules 21 and subassemblies 401, 402 which facilitates pressing the modules 21 and assemblies 401, 402 together to reduce assembly costs.

Fig. 10