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(54) Title: COMPOSITE MATERIAL SYSTEM FOR REDUCTION OF PASSIVE INTERMODULATION

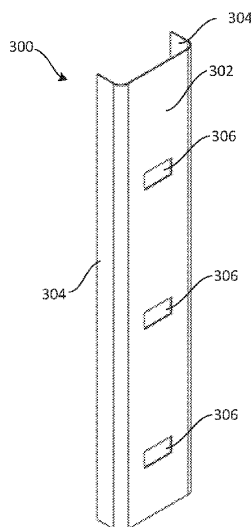


FIG. 3A

(57) Abstract: Mounting systems for telecommunications components include a shielding device that shields the components from the effects of passive intermodulation (PIM). The shielding devices can include a shielding panel or element made of a carbon fiber material that absorbs radio frequency interference, allowing the shielded component to clearly transmit and receive signals without interference due to PIM. The telecommunications tower can incorporate a composite material, such as a carbon fiber material or other non-corrosive material. The composite material can be incorporated into the frame and/or into mounting device providing for the mounting of components to the telecommunications tower, to mitigate the degradation, for example, in the form of corrosion, thus reducing or substantially eliminating sources of PIM.

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