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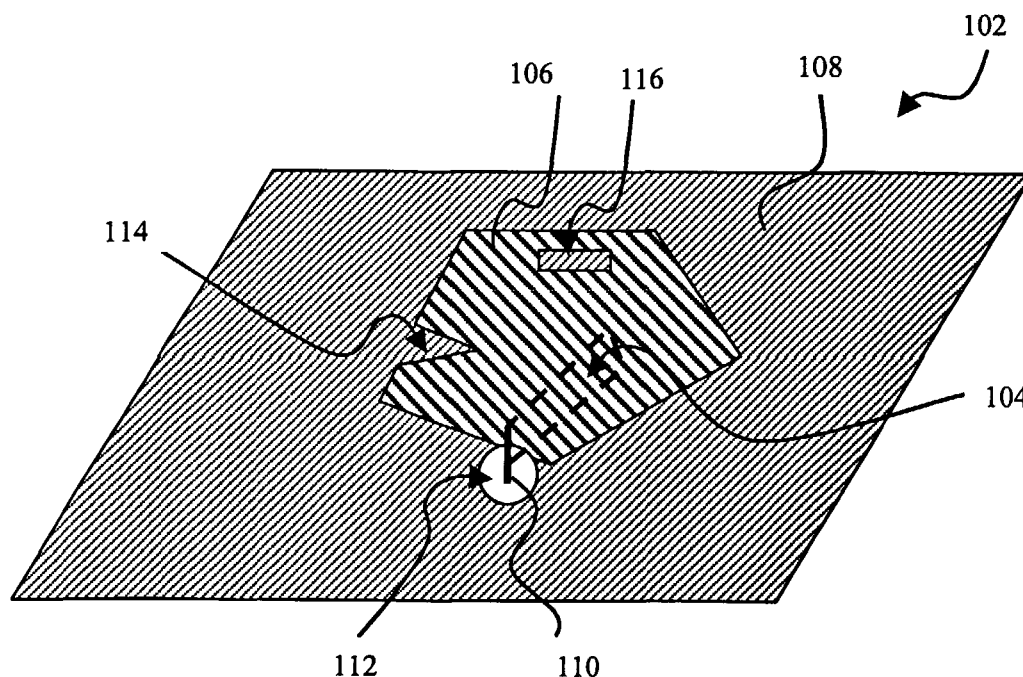
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(54) Title: **BROADBAND SUSPENDED PLATE ANTENNA WITH MULTI-POINT FEED**



(57) Abstract: Feeding structures for suspended plate antennas (102) are disclosed for enhancing the impedance bandwidth performance thereof. In any of these feeding structures, a multi-dimensional broadband impedance transformer (104) is integrated with a suspended antenna (102). The impedance transformer (104) electrically connects the radiating plate (106) and feeding probe (110) of the suspended plate antenna. As a result, the impedance bandwidth is increased. Moreover, the multi-dimensional design of the impedance transformer is variable to allow the flexible design and adjustment of the feeding structure.



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