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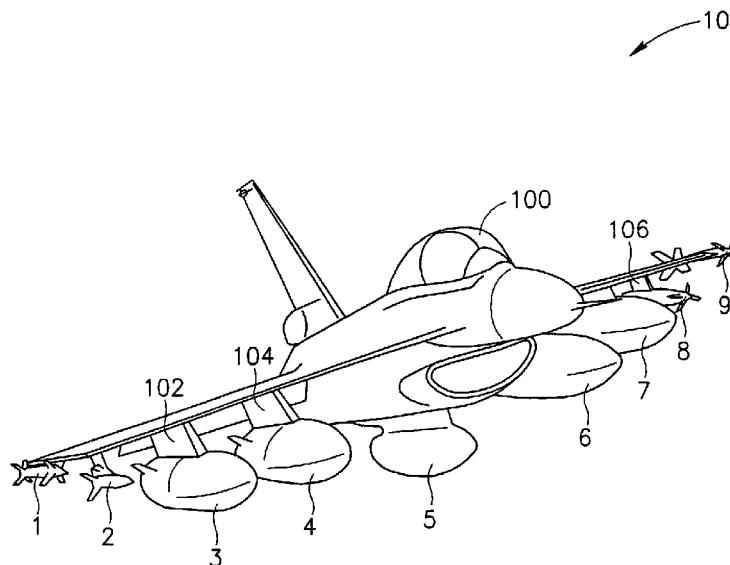
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(54) Title: SYSTEM AND METHOD FOR ENHANCING THE FUEL STORAGE VOLUME AND THE FUEL CARRIAGE CAPACITY OF EXTERNAL FUEL STORES CARRIED BY AN AERIAL VEHICLE



(57) Abstract: A system and method for enhancing the fuel stores volume of an aerial vehicle is disclosed. An extended external fuel stores configuration utilizes an alternative fuel transfer path. An external fuel tank is suspended on a external fuel tank carrier pylon uploaded on a outboard wing "pseudo-wet" stores station. The pylon is linked to a dual functionality. external fuel tank carrier pylon uploaded on an inboard wing "wet" station. The pylon is capable of transferring fuel from an external fuel container to the aircraft fuel system and capable of transmitting, and controlling the fuel store in the auxiliary fuel container attached to the pylon uploaded on a outboard wing "pseudo-wet" station. An externally mounted stores transfer kit links the inboard pylon and the outboard pylon.



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