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- (54) Title: POLYNUCLEOTIDES FOR MODIFYING ORGANISMS

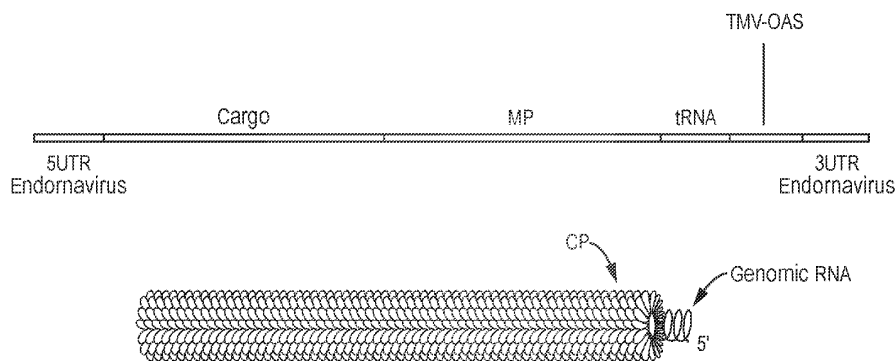


FIG. 1

- (57) Abstract: Synthetic endomaviral satellite RNA molecules and satellite particles containing the same are disclosed. The synthetic endomaviral satellite RNA molecules can include coding and/or non-coding cargo sequences, and are heritable through generations of plants. Also disclosed are methods of using the endomaviral satellite RNA molecules and satellite particles containing the same to change plant phenotypes, improve plant stress resistance, and improve plant pest and pathogen resistance.

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