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(54) Title: CROP DISEASE PREDICTION AND TREATMENT BASED ON ARTIFICIAL INTELLIGENCE (AI) AND MACHINE LEARNING (ML) MODELS

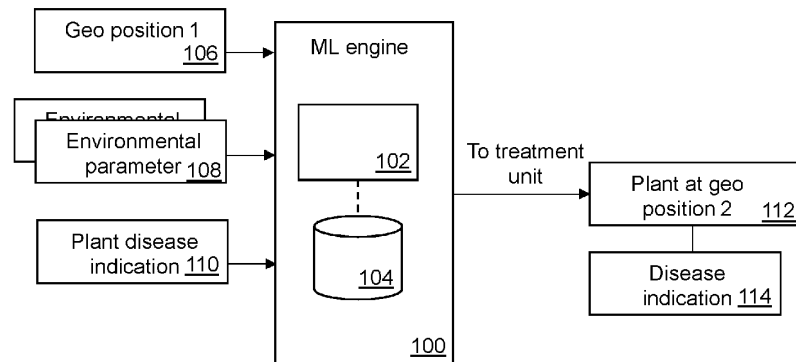


Figure 1a

(57) Abstract: Examples relate to determining a prediction of a disease likely in a plant in a crop plantation. Examples comprise receiving data captured from a first geo position of a plant in a crop plantation, the data indicating the first geo position; at least one environmental variable; and an indication of a plant disease. Machine learning is used to predict a likelihood of the disease being present in a second plant at a second geo position, based on the received data; first and second historical records of the first and second geo positions respectively; and first and second environmental variables indicating the local environment at the first and second geo positions respectively. A disease indicator is generated, indicating the likelihood of the disease being present in the second plant, and provided to a treatment unit to treat the second plant and reduce the likelihood of the disease occurring at the second plant.

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