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(54) Title: AUTONOMOUS DECISION SYSTEM FOR SELECTING TARGET IN OBSERVATION SATELLITES

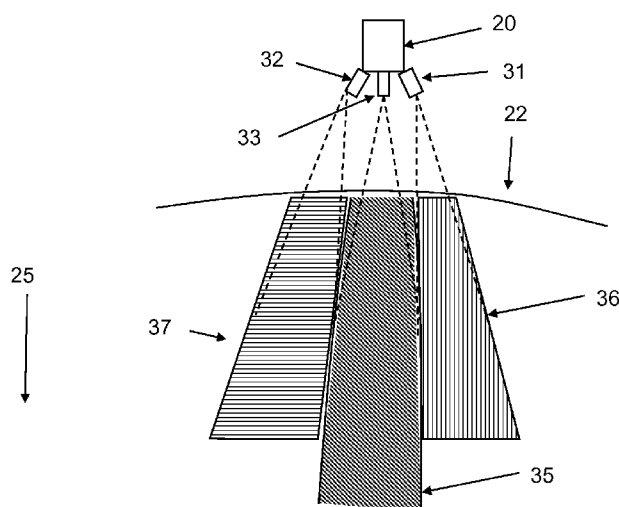


Figure 5.

(57) Abstract: The invention uses plurality of forward-looking preview cameras each looking at different nadir angle viewpoint to get cloud information from approaching target areas. The invention uses fuzzy logic system and other decision mechanisms to decide which target images should be acquired in which particular sequence and when the target image acquisition should start. The invention intends to give autonomous decision capability to agile earth observation satellites to make decision on their own to get the highest yield of quality images of target areas.