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Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))

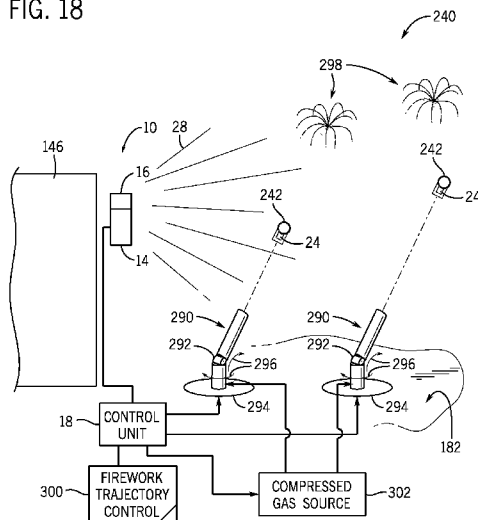
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

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(54) Title: OPTICAL TRACKING FOR CONTROLLING PYROTECHNIC SHOW ELEMENTS

FIG. 18



(57) Abstract: A dynamic signal to noise ratio tracking system enables detection and tracking of amusement park equipment within the field of view of the tracking system. The tracking system may include an emitter configured to emit electromagnetic radiation within an area, a detector configured to detect electromagnetic radiation reflected back from show elements within the area, and a control unit configured to evaluate signals from the detector to determine whether the show elements are to be adjusted.