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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))

[Continued on next page]

(54) **Title:** RAPID PROCESSING AND DETECTION OF NON-UNIFORMITIES IN WEB-BASED MATERIALS

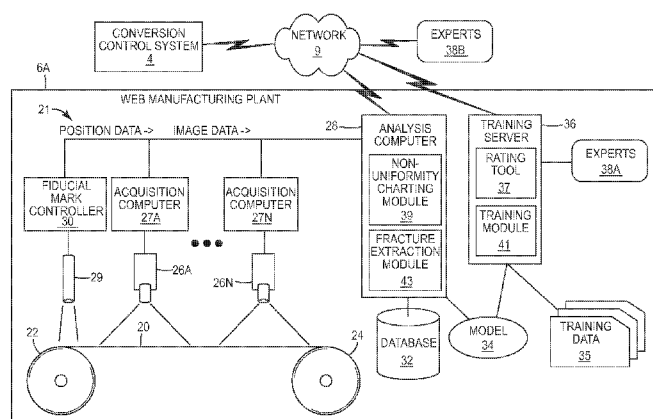


FIG. 2

(57) **Abstract:** A computerized inspection system is described for detecting the presence of non-uniformity defects and providing output indicative of a severity of each type of non-uniformity defect. Techniques are described that increase the throughput of the inspection system. Algorithmic and hardware approaches are described to significantly decrease the average amount of time required to inspect a given quantity of material that is expected to be mostly uniform. The techniques described herein involve dynamic selection of which image features to compute by starting with a base feature set and only triggering additional feature computations as needed until the features are sufficient to compute a severity for each type of non-uniformity defect. The number of features extracted and the order in which the features are extracted is dynamically determined in real-time to reduce a cost associated with the feature extraction.



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- as to the applicant's entitlement to claim the priority of — before the expiration of the time limit for amending the  
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