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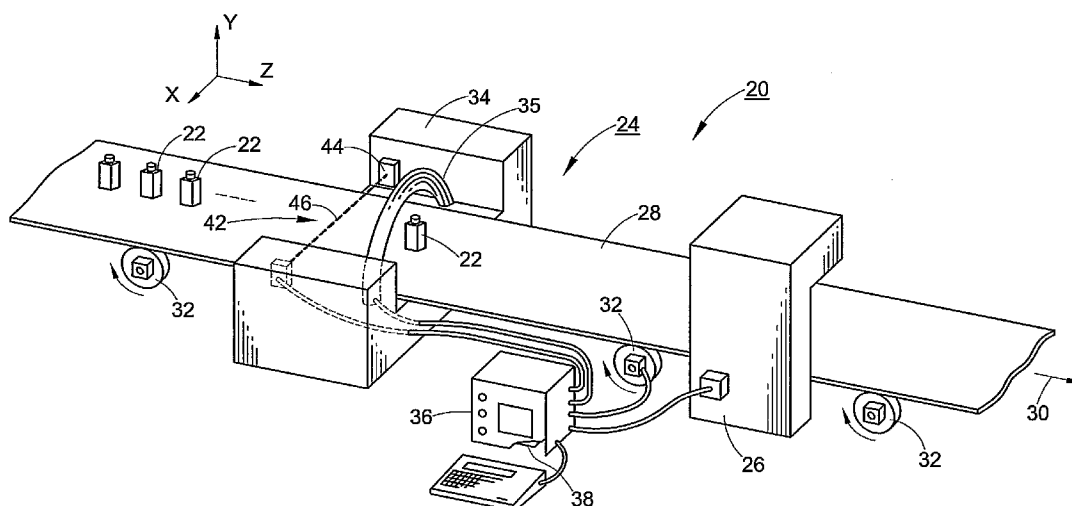
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[Continued on next page]

(54) Title: METHOD FOR COMPENSATION OF NEAR-NEIGHBOR SAMPLE EFFECTS IN A NMR CHECK WEIGHING SYSTEM



(57) Abstract: A method (10) for reducing or eliminating the effects of proximate samples on the NMR measurement of the mass of a test sample in a NMR check weighing system (24) for samples on a production line. The test sample is in a container (22) on a production line with the plurality of proximate samples each also in a container (22) on the production line. Method (10) includes determining cross coupling weighing factors for a plurality of samples in proximity to the test sample, magnetic resonance measuring of the test sample and proximate samples, the step of magnetic resonance measuring of the test sample and proximate samples providing data representative of each measurement; and applying weighing factors to the data representative of each measurement compensating for the proximate sample effects.

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