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(71) Applicant *(for all designated States except US)*: **NEWPORT CORPORATION** [US/US]; 1791 Deere Avenue, Irvine, California 92606 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **JEANNE, Alain** [FR/FR]; 78 Ruelle St Benoit, F-45200 Amilly (FR). **DURAND, Eric** [FR/FR]; 23 Rue Jules Raimu, F-42500 Amilly (FR). **DESAILLY, Roger** [FR/FR]; 85 Route de la Chenetiere, F-45530 Vitry aux Loges (FR).

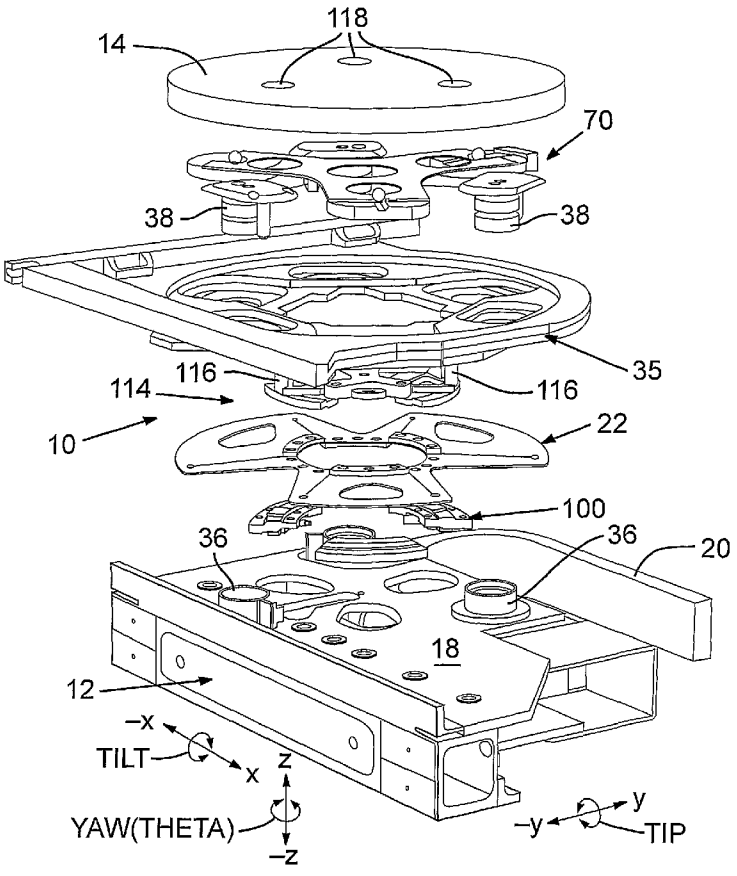
(74) Agent: **PREISS, Richard B.**; Stoel Rives LLP, 900 SW Fifth Avenue, Suite 2600, Portland, Oregon 97204-1268 (US).

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(54) Title: HIGH RESOLUTION, DYNAMIC POSITIONING MECHANISM FOR SPECIMEN INSPECTION AND PROCESSING



(57) Abstract: A specimen positioning mechanism (10) includes a movable stage (12) movable along multiple axes, a plate (35) connected to and supporting a specimen mounting chuck (14), multiple linear displacement mechanisms (36, 38) coupling the plate to the movable stage and mutually spaced apart at different locations between the movable stage and the plate and separately controllable to change distances between the movable stage and the plate, and a flexible member (22) coupling the movable stage and the plate. The flexible member is motion compliant in three axes of motion. The flexible member in response to linear displacements of the linear displacement mechanisms allows linear and rotational movement of the specimen mounting chuck in the three axes of motion compliance.

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