

ABSTRACT

COMBINED LONG-STROKE AND SHORT-STROKE

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POSITIONING STAGE

A planar positioning stage has an integrated planar motion stage that is drivable to move to different locations on a plane, and a planar fixture stage contained within the integrated planar motion stage. Multiple coil assemblies are mounted
10 on the integrated planar motion stage that are configured for electromagnetic interaction with magnets mounted on the planar fixture stage. The said electromagnetic interaction may selectively either couple the planar fixture stage to move together with the integrated planar motion stage or to decouple the planar fixture stage from the integrated planar motion stage to drive the
15 planar fixture stage to move relative to the integrated planar motion stage.

(FIG. 1)