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(54) Title: EXTREME ULTRAVIOLET MASK WITH BACKSIDE COATING

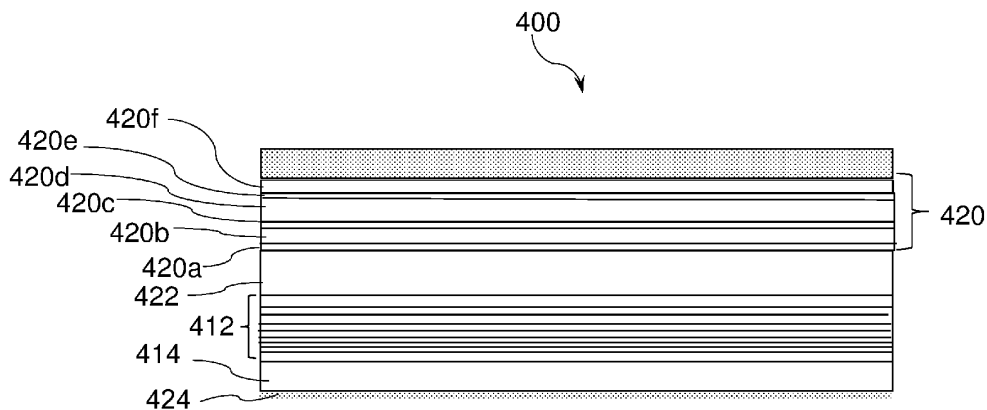


FIG. 5

(57) Abstract: Extreme ultraviolet (EUV) mask blanks, methods for their manufacture and production systems therefor are disclosed. The EUV mask blanks comprise a substrate having a first side and a second side; a backside coating layer comprising an alloy of tantalum and nickel on the first side of the substrate; a multilayer stack of reflective layers on the second side of the substrate, the multilayer stack of reflective layers including a plurality of reflective layers including reflective layer pairs; a capping layer on the multilayer stack of reflecting layers; and an absorber layer on the capping layer.

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