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(54) Title: VARIABLE 3-DIMENSIONAL STEREOMICROSCOPE ASSEMBLY

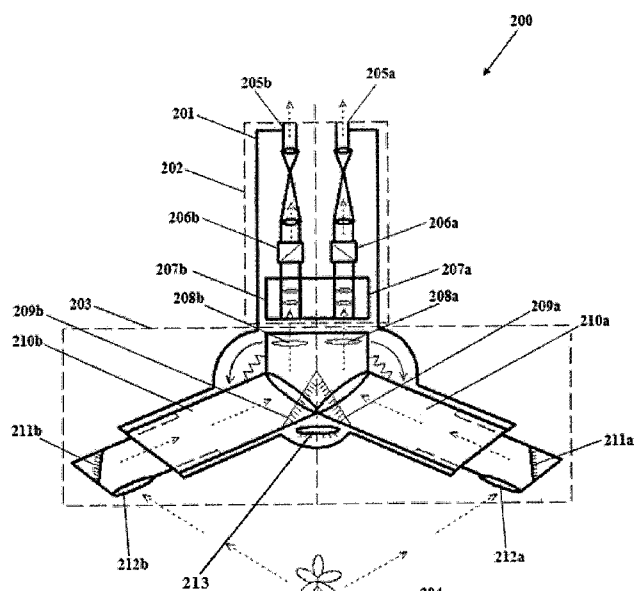


FIG. 2

(57) Abstract: Disclosed is a variable 3-D stereomicroscope assembly. The assembly comprises a housing (201) provided with left and right eye pieces (205a, 205b) for viewing a target object through left and right eyes respectively. A pair of telescopic arms (210a, 208b) detachably coupled to the housing (201) through two flexible sleeves (302a, 302b) are mounted with two objective lenses (208³/208b) for focusing a light reflected from the target object. A plurality of prisms is provided to enable a binocular vision through the left and right eye pieces (205a, 205b) simultaneously. The pair of telescopic arms (210a, 210b) are individually moved and rotated to focus on the target object. The objective unit (203) includes a mechanical and optical device unit for varying an inter-objective distance between the left and right optical path ways (or focusing on the target object to increase a degree of 3-D vision. The embodiments herein provide a variable 3-D stereomicroscope assembly. The assembly comprises a housing provided with left and right eye pieces for viewing a target object through left and right eyes respectively. A pair of telescopic arms detachably coupled to the housing through a flexible sleeve is mounted with two objective lenses for focusing a light reflected from the target object. A plurality of prisms is provided to enable a binocular vision through the left and right eye pieces simultaneously. The pair of telescopic arms are individually moved and rotated to focus

on the target object. The objective lens unit includes a mechanical and an optical device unit for varying an inter-objective distance between the left and right optical path ways for focusing on the target object to increase a degree of 3-D vision.