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(54) Title (EN): AUGMENTED REALITY-BASED PLY LAYUPS ON A COMPOSITE PART LAYUP TOOL

(54) Title (FR): CONFIGURATIONS DE PLIS À BASE DE RÉALITÉ AUGMENTÉE SUR UN OUTIL DE CONFIGURATION DE PIÈCES COMPOSITES

(57) Abstract:

(EN): A system may support augmented reality (AR)-based layup of plies to form a composite laminate. The system may include an AR headset configured to drive an AR view that digitally visualizes ply placement data on a composite part layup tool physically visible through the AR headset. The system may also include an AR ply layup engine AR ply layup engine configured to analyze a view of the AR headset to identify the composite part layup tool, obtain ply placement data, and provide ply placement data to the AR headset to digitally overlay on the composite part layup tool physically visible through the AR headset.

(FR): Selon l'invention, un système peut prendre en charge une configuration de plis basée sur la réalité augmentée (AR) afin de former un stratifié composite. Le système peut comprendre un casque d'écoute AR configuré pour commander une vue AR qui visualise numériquement des données de placement de plis sur un outil de configuration de pièces composites physiquement visible au moyen du casque d'écoute AR. Le système peut comprendre également un moteur de configuration de plis AR configuré pour analyser une vue du casque d'écoute AR afin d'identifier l'outil de configuration de pièces composites, d'obtenir des données de placement de pli et de fournir des données de placement de pli au casque d'écoute AR afin de recouvrir numériquement l'outil de configuration de pièces composites physiquement visible au moyen du casque d'écoute AR.

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