

(12) International Application Status Report

Received at International Bureau: 21 September 2018 (21.09.2018)

Information valid as of: 02 September 2019 (02.09.2019)

Report generated on: 20 January 2020 (20.01.2020)

(10) Publication number:

WO2019/067168

(43) Publication date:

04 April 2019 (04.04.2019)

(26) Publication language:

English (EN)

(21) Application Number:

PCT/US2018/049327

(22) Filing Date:

04 September 2018 (04.09.2018)

(25) Filing language:

English (EN)

(31) Priority number(s):

62/563,116 (US)

(31) Priority date(s):

26 September 2017 (26.09.2017)

(31) Priority status:

Priority document received (in compliance with PCT Rule 17.1)

(51) International Patent Classification:

G06F 17/50 (2006.01)

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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.

International search report:

Received at International Bureau: 10 December 2018 (10.12.2018) [EP]

International Report on Patentability (IPRP) Chapter II of the PCT:

Not available

(81) Designated States:

AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

European Patent Office (EPO) : AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR

African Intellectual Property Organization (OAPI) : BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG

African Regional Intellectual Property Organization (ARIPO) : BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW

Eurasian Patent Organization (EAPO) : AM, AZ, BY, KG, KZ, RU, TJ, TM