

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
15 August 2024 (15.08.2024)



(10) International Publication Number
WO 2024/165976 A1

- (51) **International Patent Classification:**
B62B 3/02 (2006.01)
- (21) **International Application Number:**
PCT/IB2024/051055
- (22) **International Filing Date:**
06 February 2024 (06.02.2024)
- (25) **Filing Language:** Italian
- (26) **Publication Language:** English
- (30) **Priority Data:**
102023000001905 06 February 2023 (06.02.2023) IT
- (71) **Applicant: IACOBUCCI HF AEROSPACE S.p.A.**
[IT/IT]; Strada SC ASI 1/S, 16-18, 03013 Ferentino (FR) (IT).
- (72) **Inventors: IACOBUCCI, Lucio;** c/o Iacobucci HF Aerospace S.p.A., Strada SC ASI 1/S, 16-18, 03013 Ferentino (FR) (IT). **FONTANA, Antonino;** c/o Iacobucci HF Aerospace S.p.A., Strada SC ASI 1/S, 16-18, 03013 Ferentino (FR) (IT). **IACOBUCCI, Massimiliano;** c/o Iacobucci HF Aerospace S.p.A., Strada SC ASI 1/S, 16-18, 03013 Ferentino (FR) (IT).
- (74) **Agent: CANDITO, Rocco et al.;** Cavattoni, Raimondi & Luppi Srl, Viale Parioli, 160, 00197 Roma (IT).
- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM,

AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE

(54) **Title:** FOLDABLE MULTI-SHELF TROLLEY

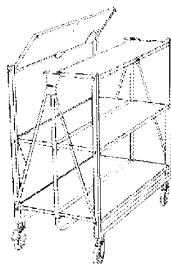


Fig. 9a

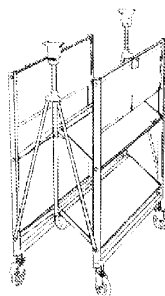


Fig. 9d

(57) **Abstract:** Foldable multi-shelf trolley comprising: a supporting structure, comprising two "U"-shaped tubular frames parallel to one another and spaced apart in a transverse direction Y-Y; a plurality of shelves, each comprising two half shelves coupled with the supporting structure so as to be able to move, in particular rotate, between a horizontal position, in which the respective shelf is formed in a trolley open configuration, and a vertical position, in which the half shelves of a shelf are arranged parallel to a vertical direction Z-Z and opposite in the transverse direction Y-Y, in a closed configuration of the trolley.



WO 2024/165976 A1