

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
27 May 2022 (27.05.2022)



(10) International Publication Number
WO 2022/106071 A1

(51) International Patent Classification:
G03F 1/66 (2012.01) *H01L 21/673* (2006.01)
G03F 7/20 (2006.01)

(74) Agent: **DEHNSGERMANY PARTNERSCHAFT VON
PATENTANWÄLTEN**; Theresienstr. 6-8, 80333
München (DE).

(21) International Application Number:
PCT/EP2021/062342

(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, 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, IT, 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, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(22) International Filing Date:
10 May 2021 (10.05.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20208499.2 18 November 2020 (18.11.2020) EP

(71) Applicant: **BROOKS AUTOMATION (GERMANY)
GMBH** [DE/DE]; Daimlerstraße 7, 78256 Steißlingen
(DE).

(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, 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, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM,

(72) Inventor: **REBSTOCK, Lutz**; Im Mühlgarten 2c, 78343
Gaienhofen (DE).

(54) Title: EUV RETICLE STOCKER AND METHOD OF OPERATING THE SAME

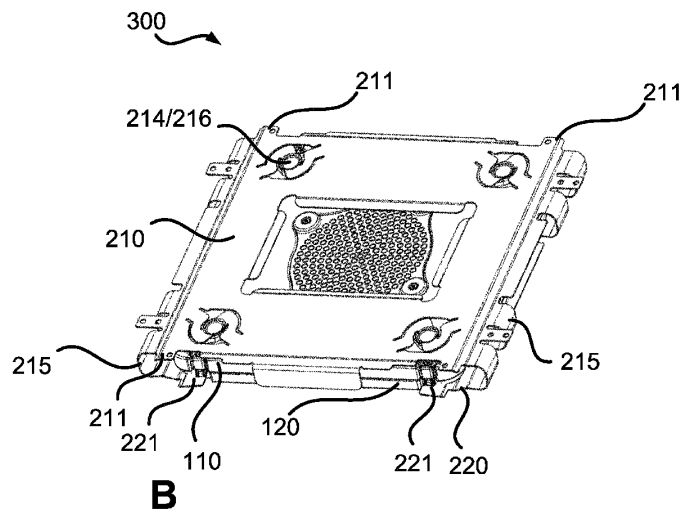


Fig. 3

(57) Abstract: A one-piece clamping device (200, 500), a storage system (300, 600) and an operating method (400, 410) for an EUV reticle stocker are provided. The required space for storing EUV reticles is significantly reduced while ensuring a high quality storage environment for the stored EUV reticles. A further aspect of the invention provides a stocker (700) for storing EUV reticles.

[Continued on next page]

WO 2022/106071 A1

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))*
- *with amended claims (Art. 19(1))*