

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织
国际局

(43) 国际公布日
2022 年 4 月 7 日 (07.04.2022)



(10) 国际公布号
WO 2022/068159 A1

(51) 国际专利分类号:
B66F 9/07 (2006.01)

黄曦(HUANG, Xi); 中国上海市松江区车墩镇泖亭路398号1-5全幢, Shanghai 201600 (CN)。

(21) 国际申请号: PCT/CN2021/083837

(74) 代理人: 上海申汇专利代理有限公司(SHANGHAI SHENHUI PATENT AGENT CO., LTD.); 中国上海市徐汇区漕宝路80号405室, Shanghai 200235 (CN)。

(22) 国际申请日: 2021 年 3 月 30 日 (30.03.2021)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
202011047930.4 2020年9月29日 (29.09.2020) CN
202022192281.9 2020年9月29日 (29.09.2020) CN

(81) 指定国(除另有指明, 要求每一种可提供的国家保护): 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。

(71) 申请人: 上海精星物流设备工程有限公司(SHANGHAI JINGXING LOGISTICS EQUIPMENT ENGINEERING CO., LTD.) [CN/CN]; 中国上海市松江区车墩镇泖亭路398号1-5全幢, Shanghai 201600 (CN)。

(72) 发明人: 李想(LI, Xiang); 中国上海市松江区车墩镇泖亭路398号1-5全幢, Shanghai 201600 (CN)。
朱旭光(ZHU, Xuguang); 中国上海市松江区车墩镇泖亭路398号1-5全幢, Shanghai 201600 (CN)。

(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ,

(54) Title: DOUBLE-COLUMN STACKING MACHINE

(54) 发明名称: 一种双立柱堆垛机

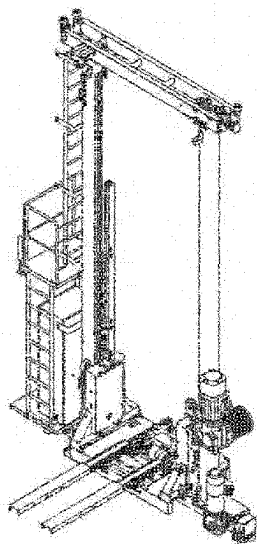


图 1

(57) Abstract: The present invention relates to the technical field of warehouse logistics, and disclosed is a double-column stacking machine. The double-column stacking machine comprises an upper cross beam, a lower cross beam, columns, a cargo carrying platform, a lifting motor, a reel, a steel wire rope, an upper cross beam rope wheel, a steel wire rope hanging clamp and a cargo carrying platform rope wheel. Two columns are provided side by side between the upper cross beam and the lower cross beam; the cargo carrying platform is provided between the two columns; the lifting motor and the reel are provided on a stand column on one side; the upper cross beam rope wheel is provided on a side of the upper cross beam above the reel, and the steel wire rope hanging clamp is provided on the other side of the upper cross beam; the cargo carrying platform rope wheel is provided on the cargo carrying platform; and the steel wire rope disposed in the reel passes through the cargo carrying platform rope wheel by means of the upper cross beam rope wheel on one side so as to be connected to the steel wire rope hanging clamp disposed on the upper cross beam on the other side. The present invention has a simple structure, high work efficiency, helps to achieve unmanned operations, stably walks, has a large cargo carrying capacity and low noise. By using a single reel and single steel wire rope structure, costs are reduced, installation and maintenance are facilitated, the structure is simpler, and usage is safer.

WO 2022/068159 A1

[见续页]

NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), 欧亚 (AM, AZ, BY, KG, KZ, RU, TJ, TM), 欧洲 (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), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG)。

根据细则4.17的声明：

- 关于发明人身份(细则4.17(i))
- 发明人资格(细则4.17(iv))

本国际公布：

- 包括国际检索报告(条约第21条(3))。
-

(57) 摘要：本发明涉及一种双立柱堆垛机，属于仓储物流技术领域。包括上横梁、下横梁、立柱、载货台、提升电机、卷筒、钢丝绳、上横梁绳轮、钢丝绳吊夹和载货台绳轮；上横梁和下横梁之间并排设有两根立柱；两根立柱之间设有载货台；一侧立柱上设有提升电机和卷筒，卷筒上方的上横梁一侧上设有上横梁绳轮，上横梁的另一侧设有钢丝绳吊夹；载货台上设有载货台绳轮；卷筒中设置的钢丝绳通过一侧上横梁绳轮穿过载货台绳轮与另一侧上横梁上设置的钢丝绳吊夹连接。本发明结构简单，工作效率高，便于实现无人操作，行走稳定，载货量大，噪声小。通过采用单个卷筒、单根钢丝绳的结构，节约成本，便于安装、维护，结构更简单，使用更安全。