

(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
2016 年 5 月 12 日 (12.05.2016)



(10) 国际公布号
WO 2016/070842 A1

- (51) 国际专利分类号:
G06K 7/00 (2006.01)
- (21) 国际申请号: PCT/CN2015/093986
- (22) 国际申请日: 2015 年 11 月 6 日 (06.11.2015)
- (25) 申请语言: 中文
- (26) 公布语言: 中文
- (30) 优先权:
201410643618.X 2014 年 11 月 6 日 (06.11.2014) CN
201410638505.0 2014 年 11 月 6 日 (06.11.2014) CN
- (71) 申请人: 同方威视技术股份有限公司 (NUCTECH COMPANY LIMITED) [CN/CN]; 中国北京市海淀区双清路同方大厦 A 座 2 层, Beijing 100084 (CN)。
- (72) 发明人: 王永明 (WANG, Yongming); 中国北京市海淀区双清路同方大厦 A 座 2 层, Beijing 100084 (CN)。 许艳伟 (XU, Yanwei); 中国北京市海淀区双清路同方大厦 A 座 2 层, Beijing 100084 (CN)。 喻卫丰 (YU, Weifeng); 中国北京市海淀区双清路同方大厦 A 座 2 层, Beijing 100084 (CN)。
- (74) 代理人: 中科专利商标代理有限责任公司 (CHINA SCIENCE PATENT & TRADEMARK AGENT LTD.);

中国北京市海淀区西三环北路 87 号 4-1105 室, Beijing 100089 (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, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, 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。

(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, 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)。

本国际公布:

— 包括国际检索报告 (条约第 21 条(3))。

(54) Title: CONTAINER NUMBER RECOGNITION METHOD AND SYSTEM

(54) 发明名称: 集装箱号码识别方法和系统

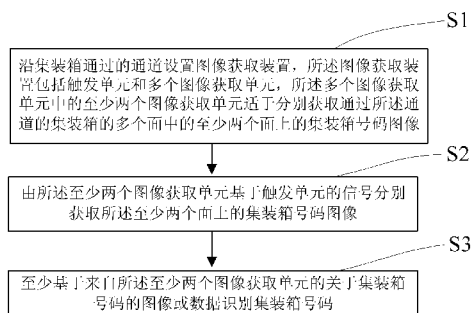


图 1/ FIG. 1

- S1 SETTING AN IMAGE ACQUISITION DEVICE ALONG A CHANNEL THROUGH WHICH A CONTAINER PASSES, THE IMAGE ACQUISITION DEVICE COMPRISING A TRIGGER UNIT AND A PLURALITY OF IMAGE ACQUISITION UNITS, AT LEAST TWO IMAGE ACQUISITION UNITS OF THE PLURALITY OF IMAGE ACQUISITION UNITS BEING SUITABLE FOR RESPECTIVELY ACQUIRING CONTAINER NUMBER IMAGES ON AT LEAST TWO SURFACES OF A PLURALITY OF SURFACES OF THE CONTAINER WHICH PASSES THROUGH THE CHANNEL.
- S2 RESPECTIVELY ACQUIRING, BY THE AT LEAST TWO IMAGE ACQUISITION UNITS, THE CONTAINER NUMBER IMAGES ON THE AT LEAST TWO SURFACES BASED ON SIGNALS OF THE TRIGGER UNIT.
- S3 RECOGNIZING CONTAINER NUMBERS AT LEAST BASED ON IMAGES OR DATA ABOUT THE CONTAINER NUMBERS FROM THE AT LEAST TWO IMAGE ACQUISITION UNITS.

(57) Abstract: Provided is a container number recognition method, comprising: setting an image acquisition device along a channel through which a container passes, the image acquisition device comprising a trigger unit and a plurality of image acquisition units, at least two image acquisition units of the plurality of image acquisition units being suitable for respectively acquiring container number images on at least two surfaces of a plurality of surfaces of the container which passes through the channel; respectively acquiring, by the at least two image acquisition units, the container number images on the at least two surfaces based on signals of the trigger unit; and recognizing container numbers at least based on images or data about the container numbers from the at least two image acquisition units. The present invention also relates to a container number recognition system.

(57) 摘要: 本发明提供了一种集装箱号码识别方法, 包括: 沿集装箱通过的通道设置图像获取装置, 所述图像获取装置包括触发单元和多个图像获取单元, 所述多个图像获取单元中的至少两个图像获取单元适于分别获取通过所述通道的集装箱的多个面中的至少两个面上的集装箱号码图像; 由所述至少两个图像获取单元基于触发单元的信号分别获取所述至少两个面上的集装箱号码图像; 至少基于来自所述至少两个图像获取单元的关于集装箱号码的图像或数据识别集装箱号码。本发明还涉及一种集装箱号码识别系统。

WO 2016/070842 A1