

(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



(10) 国际公布号
WO 2020/215805 A1

(43) 国际公布日
2020 年 10 月 29 日 (29.10.2020)

(51) 国际专利分类号:
G16H 40/20 (2018.01)

(21) 国际申请号: PCT/CN2020/000061

(22) 国际申请日: 2020 年 4 月 9 日 (09.04.2020)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:
201910339987.2 2019 年 4 月 25 日 (25.04.2019) CN

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(54) Title: IMAGE RECOGNITION BASED WORKSTATION FOR EVALUATION ON QUALITY CHECK OF COLONOSCOPY

(54) 发明名称: 基于图像识别的结肠镜检查质量评估工作站

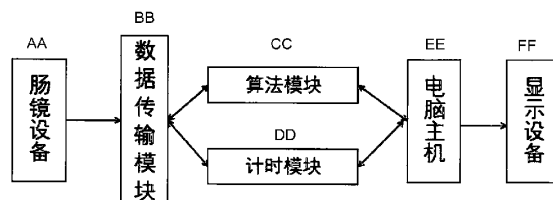


图 1

AA COLONOSCOPY DEVICE
BB DATA TRANSMISSION MODULE
CC ALGORITHM MODULE

DD TIMING MODULE
EE COMPUTER HOST
FF DISPLAY DEVICE

(57) Abstract: Disclosed is an image recognition based workstation for evaluation on quality check of colonoscopy, relating to the technical field of intelligent healthcare. The workstation comprises an algorithm module, a timing module, a data transmission module, a display device, a colonoscopy device, and a computer host. The colonoscopy device is connected with the data transmission module, and the data transmission module is connected with the computer host through the algorithm module and the timing module; and the display device is used to display the results of the computer host. The described workstation can evaluate different techniques of doctors during each colonoscopy check by means of different image recognition algorithms. During the checking process, the workstation determines whether the operation of the doctor is appropriate and gives the corresponding reference suggestions, which is responsible for patients and allows the doctor to continuously improve his ability during the checking process, thereby greatly reducing the pressure on doctors, and allowing doctors to focus more on other more creative tasks, and besides bringing huge economic and social benefits.

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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))。

(57) 摘要：一种基于图像识别的结肠镜检查质量评估工作站，涉及智能医疗技术领域。该工作站包括：算法模块、计时模块、数据传输模块、显示设备、肠镜设备和电脑主机；所述肠镜设备与所述数据传输模块连接，所述数据传输模块通过算法模块和计时模块与所述电脑主机连接，所述显示设备用于将电脑主机的结果进行显示。上述工作站能够通过不同的图像识别算法对医生每次的结肠镜检查过程中不同手法进行评估，在检查过程判断医生操作是否得当并给出相应的参考建议，对患者负责，而且可以使医生在检查过程中不断提高自己的能力，这样不仅大大减轻医生的压力，让医生更专注于其它更富创造性的任务中，而且有着巨大的经济及社会效益。