University: Rizal Technological University
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Annex - A
SEARCH REPORT

Name:
Tuprio Rudy Lee L.
Apitan Jaypee
Macayan, James Dylan
Bautista, Cyrille Joyce Anne
Balarbar, Lord Iven

Name of Technology:
Microcontroller Based: A Multi-purpose Sanitation tunnel for covid Health protocols

College/School/Institution:

CEAT / Rizal Technological University

Remarks:
A Multi-purpose Sanitation tunnel is a Disinfectant tunnel that can be used for contact tracing in order to prevent the outbreak of Covid-19 Cases. One of its functions is that it can disinfect a person that has a time span between 15-30 seconds. Additionally, it can accurately add or retrieve data in the database. This product can be used in hospitals

Keywords
Disinfectant tunnel,
Sanitation tunnel,
Temperature scanner,
QR code

Database *(Espacenet, Patentscope)*	**Search String**	**Number of Hits** *[Ex: 205]*
Google	disinfectant tunnel	49,077
	body temperature scanner	135,828
	QR code	135,828
Espacenet	Disinfectant tunnel for human	814

DOCUMENTS CONSIDERED TO BE RELEVANT – PATENT LITERATURE

	Citation of Documents
1	***Title:*** **Personnel disinfecting and drying channel** ***Patent Number:*** CN211863404U ***Date of Application (Filed Date):*** 2020-02-10 ***International Patent Classification:*** A61L2/22; A61L2/24; A61L2/26; F26B21/00; ***Inventor(s):*** QU LINGBO; LI CHAOHUI; YANG RAN 屈凌波; 李朝辉; 杨冉; QU LINGBO; LI CHAOHUI; YANG RAN ***Applicant/Assignee:*** UNIV ZHENGZHOU 郑州大学; ZHENGZHOU UNIVERSITY ***Applied Country:*** ***Abstract:*** The utility model relates to a personnel disinfecting and drying channel. The device comprises a channel, a liquid storage tank, a fan heater and a PLC, an electronic eye is arranged at the front end of the channel; according to the utility model, the electronic eye can sense that someone is going to pass through the channel; communicating electrical signals to PLC controllers, controller control air pump, ultrasonic nebulizer turn-on, the spray head sprays disinfectant into the channel; people can be disinfected when passing by; upcoming passage of a pipe, warm air blower starting to work, the disinfectant on the surface of the human body is dried; the liquid level alarm arranged in the liquid storage tank can timely remind a worker to add disinfectant into the liquid storage tank; normal use of the disinfecting and drying channel is prevented from being affected due to the fact that disinfectant is not supplied in time, intelligentization of disinfection is achieved by means of the electronic eye and the PLC, operation is easy, work is reliable, the disinfectant can be dried, human body discomfort caused by the fact that the disinfectant stays on the surface of a human body for along time is avoided, and user experience is better . ***URL:*** ***https://worldwide.espacenet.com/patent/search/family/073252650/publication/CN211863404U?q=Disinfectant%20tunnel%20for%20human***

2	***Title:*** **Self-adaptive body temperature monitoring method and system** ***Patent Number:*** **CN108344525B** ***Date of Application (Filed Date):*** 2020-06-23 ***International Patent Classification:*** ***Inventor(s):*** 郑勇平 蔡世光 ***Applicant/Assignee:*** nventec Appliances Shanghai Corp ***Applied Country:China*** ***Abstract:*** The invention provides a self-adaptive body temperature monitoring method and a system, wherein an image acquisition device is adopted to acquire an image of a monitoring area, and a monitored object and a corresponding position are obtained from the acquired image; judging the face posture of the monitored object in the image, and determining the available temperature measurement area of the monitored object according to the face posture; collecting the distance between a monitored object and an infrared thermometer by using distance measuring equipment; adjusting the infrared thermometer until the temperature measuring head aligns with the available temperature measuring area of the monitored object; and scanning the available temperature measuring area by adopting an infrared thermometer, obtaining a body temperature measuring result of the corresponding monitored object, and obtaining the body temperature of the object according to the distance between the monitored object and the infrared thermometer and the body temperature measuring result. The invention provides a body temperature monitoring scheme, which can automatically judge whether the body temperature monitoring equipment is adapted to a body temperature monitoring device without a specific adaptation action of a monitored object and can also actively adjust the position and posture of an infrared thermometer to actively adapt to the monitored object so as to realize dynamic non-contact monitoring. ***URL:*** ***https://patents.google.com/patent/CN108344525B/en?q=body+temperature+scanner&oq=body+temperature+scanner***

3	***Title:*** **Smart phone login using QR code** ***Patent Number:*** **US10050952B2** ***Date of Application (Filed Date):*** 2016-09-02 ***International Patent Classification:2016*** ***Inventor(s):*** Jiazheng Shi ***Applicant/Assignee:*** PayPal Inc ***Applied Country:US*** ***Abstract:*** Systems and methods are disclosed for a user to use a mobile device such as a smart phone to scan a QR (Quick Response) code displayed on a login webpage of a website. The QR code may encode a server URL of the website. The mobile device decodes the QR code and transmits a device ID and other decoded information to a service provider. The service provider locates login credentials of the user linked to the device ID and communicates the login credentials to a website server for user authentication. Alternatively, the mobile device may transmit its device ID to the website server for the website server to locate a user account linked to the device ID for user login. Alternatively, the mobile device may transmit stored login credentials to the website server. Advantageously, a user may access a website without the need to provide any login credentials. ***URL:*** https://patents.google.com/patent/US10050952B2/en?q=qr+code&oq=qr+code+

DOCUMENTS CONSIDERED TO BE RELEVANT – NON-PATENT LITERATURE

	Citation of Documents
1	***Title:*** ***Author(s):*** ***Source:*** ***Text:***
2	***Title:*** ***Author(s):*** ***Source:*** ***Text:***
3	***Title:*** ***Author(s):*** ***Source:*** ***Text:***