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(54) Title: QR CODE POSITIONING METHOD AND APPARATUS

(54) 发明名称: 二维码定位方法及装置

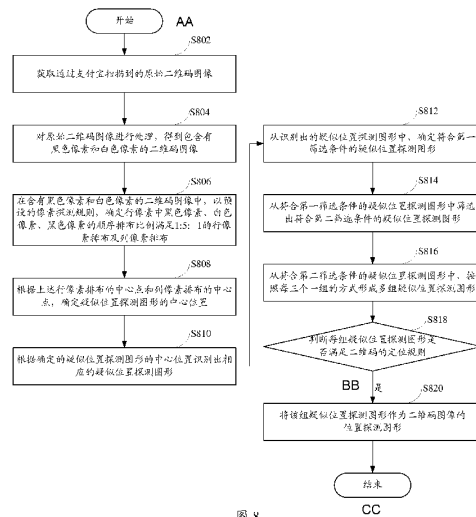


图 8

S802 Obtain an initial QR code image obtained by scanning by means of Alipay
S804 Process the initial QR code image to obtain a QR code image containing black pixels and white pixels
S806 Determine, from the QR code image containing the black pixels and the white pixels and according to a preset pixel detection rule, row pixel arrangement with a sequential arrangement ratio of a black pixel, a white pixel, and a black pixel in row pixels satisfying 1:5:1, and column pixel arrangement
S808 Determine center positions of suspected position detection patterns according to center points of the row pixel arrangement and center positions of the column pixel arrangement
S810 Identify corresponding suspected position detection patterns according to the determined center positions of the suspected position detection patterns
S812 Determine suspected position detection patterns satisfying a first screening condition from the identified suspected position detection patterns
S814 Obtain, from the suspected position detection patterns satisfying the first screening condition, suspected position detection patterns satisfying a second screening condition by means of screening
S816 Divide the suspected position detection patterns satisfying a second screening condition into multiple groups of suspected position detection patterns in groups of three
S818 Determine whether the suspected position detection patterns in each group satisfy a QR code positioning rule
S820 Use the group of suspected position detection patterns as position detection patterns of the QR code
AA Start
BB Yes
CC End

(57) Abstract: A QR code positioning method and apparatus. The method comprises: first determining, according to a sequential arrangement ratio of a first-type pixel, a second-type pixel, and a first-type pixel, center positions of suspected position patterns in a QR code image containing the first-type pixels and the second-type pixels; then identifying corresponding suspected position detection patterns according to the determined center positions of the suspected position detection patterns; and determining a pattern conforming to a QR code positioning rule from the identified suspected position detection patterns and using the determined pattern as a position

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本国际公布:

— 包括国际检索报告 (条约第21条(3))。

detection pattern of the QR code.

(57) 摘要: 一种二维码定位方法及装置, 其中方法为: 首先根据第一类像素、第二类像素、第一类像素的顺序排布比例从含有第一类像素和第二类像素的二维码图像中确定二维码图像中的疑似位置图形的中心位置; 之后, 根据确定的疑似位置探测图形的中心位置识别出相应的疑似位置探测图形; 然后, 从识别出的疑似位置探测图形中, 确定出符合二维码定位规则的图形, 将确定出的图形作为二维码图像的位置探测图形。