

THE G-CODE -- Specification

I, **Henry Viet Pham** have invented a new design for a 'THE G-CODE' as set forth in the following specification for **Application Number** **PCT/IB2022/000112** with USPTO International Application Number **PCT/US22/70704** submitted on February 17 2022 and the **original first** submitted on September 03 2021 as US Patent Application Number **29806573**:

Fig-1: is the 'G-CODE Profiles' showing International [Left-Side] with 74-bytes in UTF-8 format and ASCII [Right-Side] with 85 maximum characters. This G-CODE Profile can be used for Photo ID, Passport or any other Photo ID cards. This G-CODE with Profile Photo occupied in the 32x32 dot matrix and with 6x info lines and 3x border lines showing my new design;

Fig-2: is the 'G-CODE Logos' with '4-Corner US-Flag' showing ASCII with 212 maximum characters. This G-CODE Logo can be used for Logo with info, Product photo with description or any object photo with description. This G-CODE with logo photo occupied in the center of the matrix and its size depends on total characters of the description showing my new design; thereof;

Fig-3: is the 'G-CODE Logos' with '4-Corner Globes' showing ASCII with 212 maximum characters. This G-CODE Logo can be used for Logo with info, Product photo with description or any object photo with the description. This G-CODE with logo photo occupied in the center of the

THE G-CODE -- Specification

matrix and its size depends on total characters of the description showing my new design; thereof;

Fig-4: is the 'G-CODE Logos' with '4-Corner US-Flag' showing UTF-8 format with 185 maximum bytes. This G-CODE Logo can be used for Logo with info, Product photo with description or any object photo with description. This G-CODE with logo photo occupied in the center of the matrix and its size depends on total bytes of the description showing my new design; thereof;

Fig-5: is the 'G-CODE Logos' with '4-Corner Globes' showing UTF-8 format with 185 maximum bytes. This G-CODE Logo can be used for Logo with info, Product photo with description or any object photo with description. This G-CODE with logo photo occupied in the center of the matrix and its size depends on total bytes of the description showing my new design; thereof;

Fig-6: is the 'G-CODE Label' showing ASCII data up to 21 characters with 3x border lines with total of 24x24 Dot-Matrix in 2 modes, Color and Black/White mode of a G-CODE Label showing my new design; thereof;

Fig-7: is the 'G-CODE Label' showing UTF-8 format with data up to 18 bytes with 3x border lines with total of 24x24 Dot-Matrix in 2 modes, Color and Black/White mode of a G-CODE Label showing my new design; thereof;

THE G-CODE -- Specification

Fig-8: is the 'G-CODE Label' showing data size 8x8 Raw Data-Matrix with 5x checksum lines and 3x border lines with total of 24x24 Dot-Matrix in 2 modes, Color and Black/White mode of a G-CODE Label showing my new design; thereof;

Fig-9: is the 'G-CODE Label' showing data size 16x16 Raw Data-Matrix with 5x checksum lines and 3x border lines with total of 32x32 Dot-Matrix in 2 modes, Color and Black/White mode of a G-CODE Label showing my new design; thereof;

Fig-10: is the 'G-CODE Label' showing user data in the yellow square; thereof;

Fig-11: is the 'G-CODE Label Data' showing Error Correction for scratched row; thereof;

Fig-12: is the 'G-CODE Label Data' showing Error Correction for scratched column; thereof;

Fig-13: is the 'G-CODE Label Data' showing Error Correction for scratched area; thereof;

Fig-14: is the 'G-CODE Label' showing data size 32x32 Raw Data-Matrix with 6x checksum lines and 3x border lines with total of 50x50 Dot-Matrix in 2 modes, Color and Black/White mode of a G-CODE Label; thereof;

THE G-CODE -- Specification

Fig-15: is the 'G-CODE Label' showing data size 64x64 Raw Data-Matrix with 8x checksum lines and 3x border lines with total of 86x86 Dot-Matrix in 2 modes, Color and Black/White mode of a G-CODE Label; thereof;

Fig-16: is the 'G-CODE Label' showing data size 1024x1024 Raw Data-Matrix with 11x checksum lines and 3x border lines with total of 1052x1052 Dot-Matrix in Color mode of a G-CODE Label; thereof;

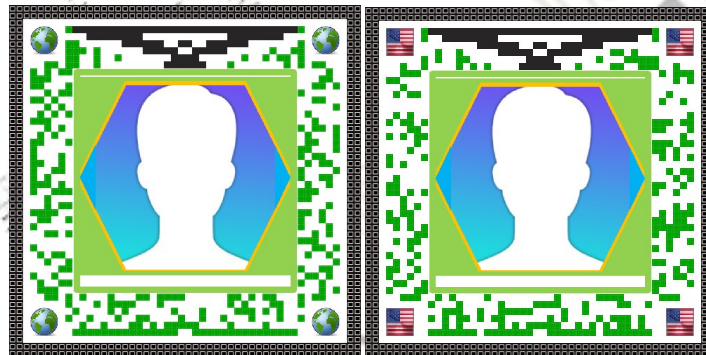


Fig-1: GCODE-Profiles: [32x32:Photo]+[6x:LineInfo+3x:Border] or [50x50] Dot-Matrix



Fig-2: GCODE-Logos (4.Corner.US.Flags): [Photo+LineInfo+3x:Border] with Max of [50x50] Dot-Matrix

THE G-CODE -- Specification



Fig-3: GCODE-Logos (4.Corner.Globe): [Photo+LineInfo+3x:Border] with Max of [50x50] Dot-Matrix

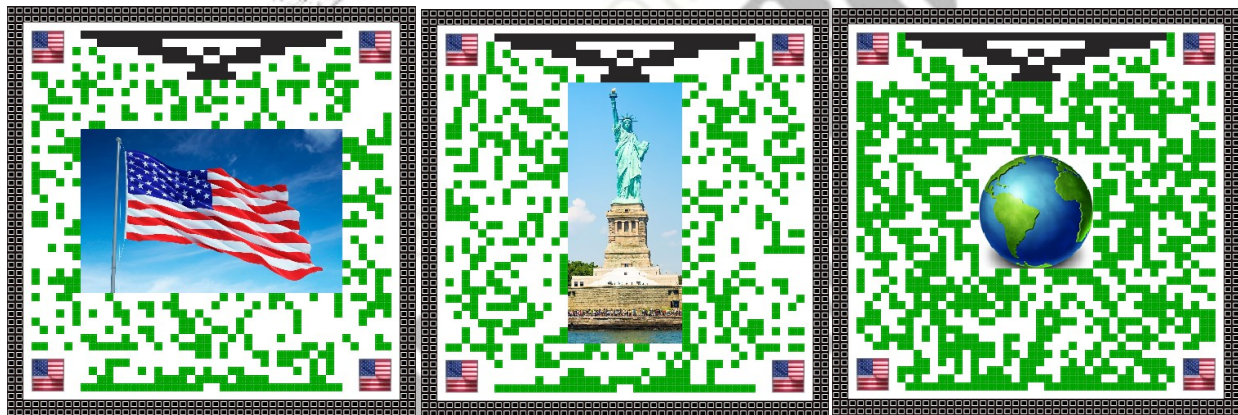


Fig-4: GCODE-UTF-8-Logos (4.Corner.US.Flags): [Photo+LineInfo+3x:Border] with Max of [50x50] Dot-Matrix

THE G-CODE -- Specification



Fig-5: GCODE-UTF-8-Logos (4.Corner.Globes): [Photo+LineInfo+3x:Border] with Max of [50x50] Dot-Matrix

THE G-CODE -- Specification

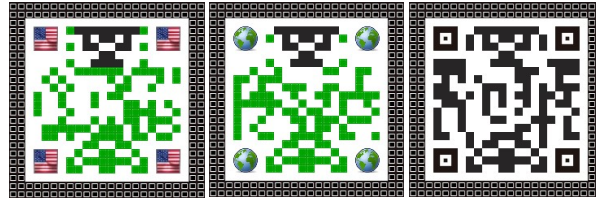


Fig-6: GCODE-21-ASCII-Chars: [Data+3x:Border] with Max of [24x24] Dot-Matrix



Fig-7: GCODE-18-Bytes-UTF-8: [Data+3x:Border] with Max of [24x24] Dot-Matrix

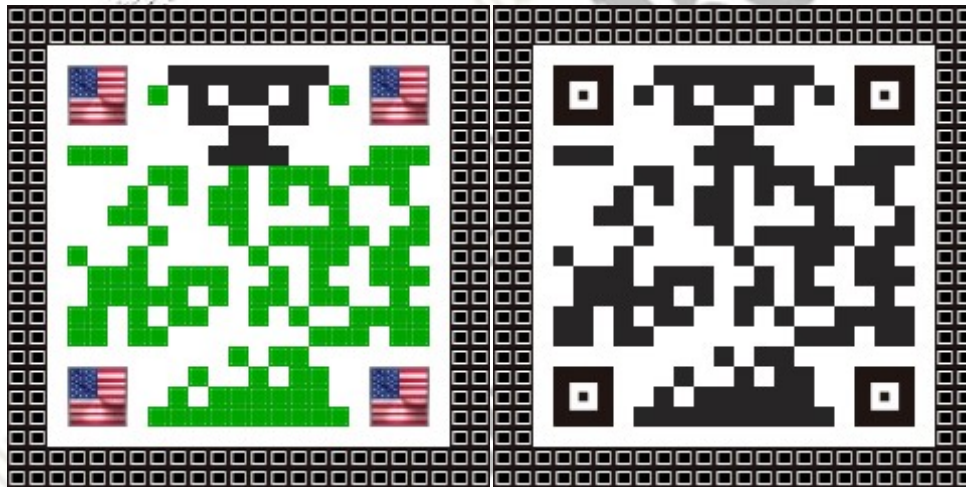


Fig-8: GCODE-Label:[Standard 8x8:Data]+[5x:LineChecksum+3x:Border]

THE G-CODE -- Specification

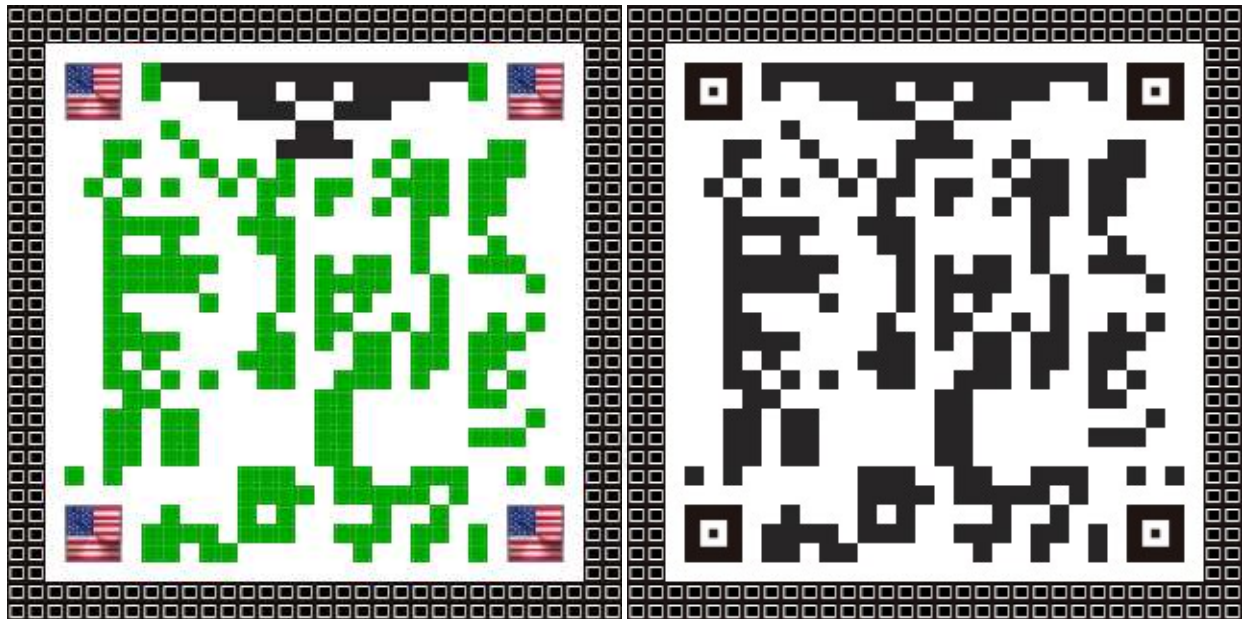


Fig-9: GCODE-Label:[16x16:Data]+[5x:LineChecksum+3x:Border]



Fig-10: GCODE-Color-Label:[16x16:Data (In-Yellow-Square)]

THE G-CODE -- Specification

Henry V. Pham

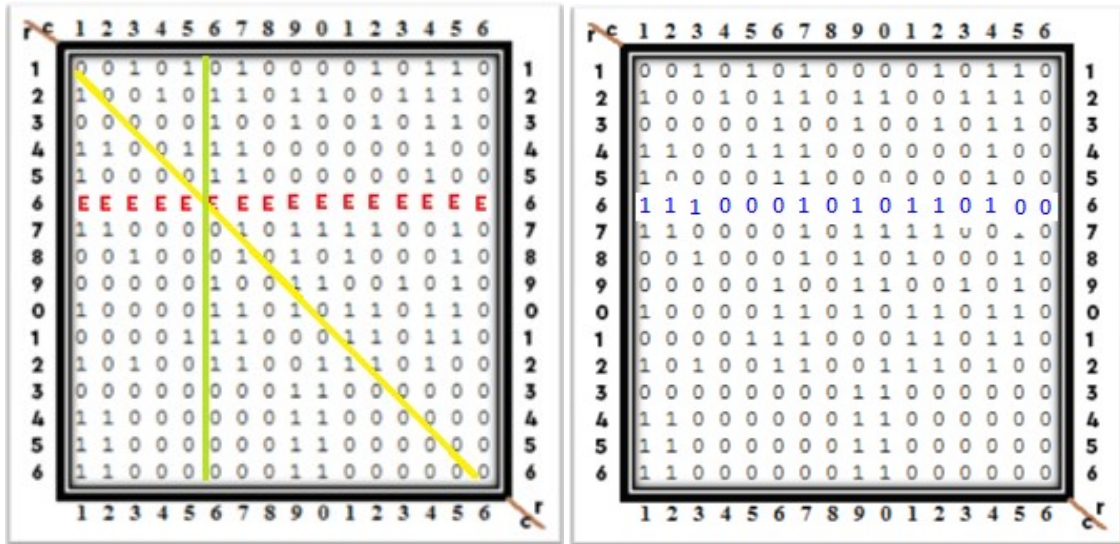


Fig-11: GCODE-Data:[16x16] with scratched row and corrected

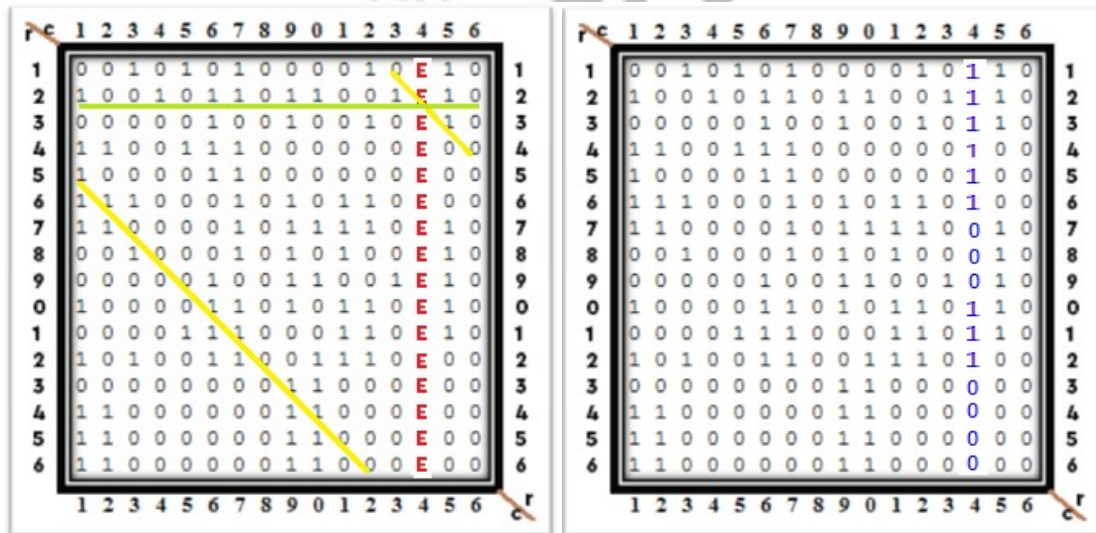


Fig-12: GCODE-Data:[16x16] with scratched column and corrected

THE G-CODE -- Specification

Henry V. Pham

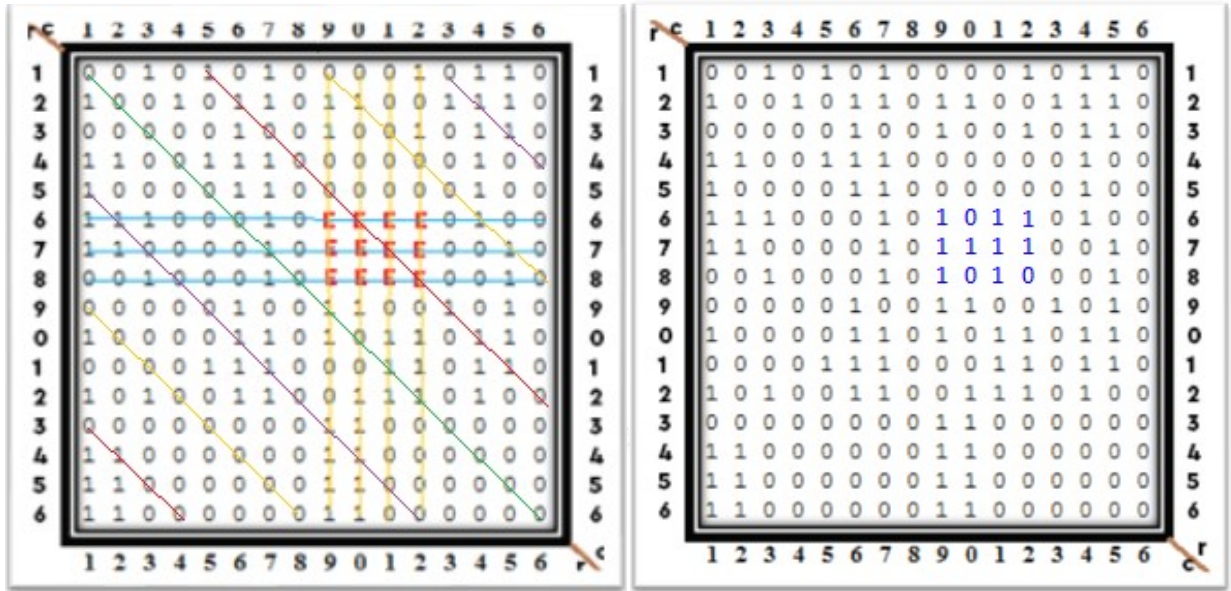


Fig-13: GCODE-Data:[16x16] Error dots Correction



Fig-14: GCODE-Label: [32x32:Data]+[50x50 (6x:LineChecksum+3x:Border)]

THE G-CODE -- Specification

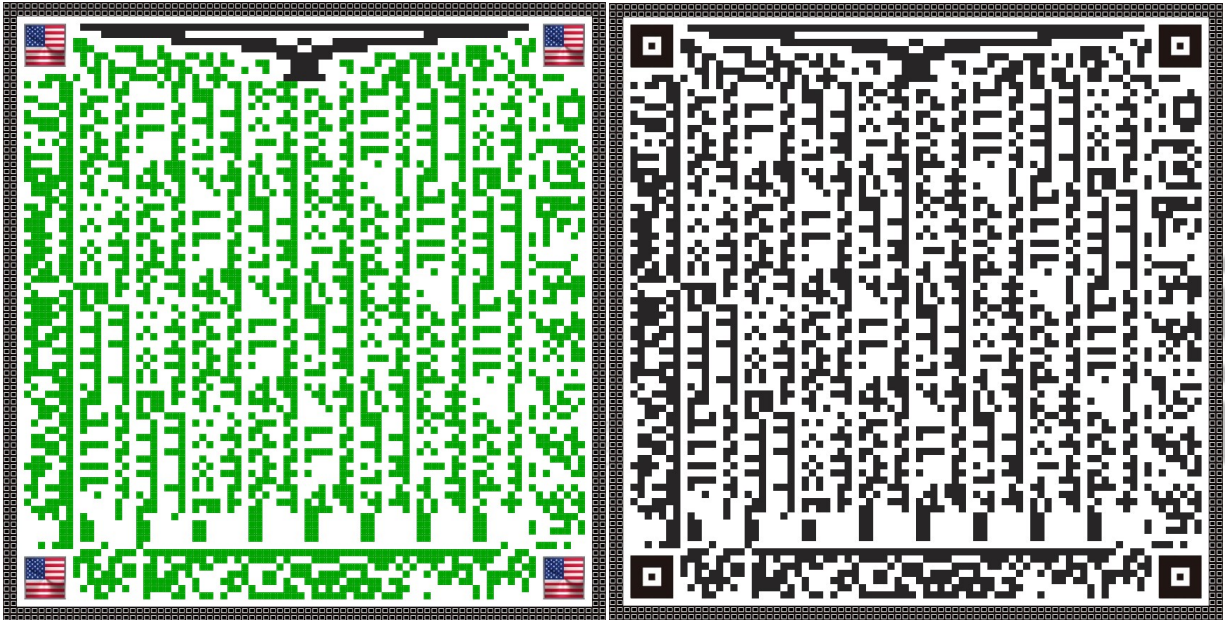


Fig-15: GCODE-Label: [64x64:Data]+[86x86(8x:LineChecksum+3x:Border)]

THE G-CODE -- Specification

Henry V. Pham



Fig-16: GCODE-Label: [1024x1024:Data]+[1052x1052 (Label-Dots)]

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