

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,341,228

DATED : August 23, 1994

INVENTOR(S) : Kevin Parker et al.


It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 18, claim 5, line 44, delete "of".

Signed and Sealed this

Twenty-seventh Day of December, 1994

Attest:



BRUCE LEHMAN

Attesting Officer

Commissioner of Patents and Trademarks

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below: Title page, item [56],

<u>Pat. No.</u>	<u>Date</u>	<u>Inventor</u>	<u>Pat. No.</u>	<u>Date</u>	<u>Country</u>
5,010,398	1991	Nys et al.	01523555	1985	European
4,997,733	1991	Carleer et al.	WO 9004898	1990	PCT
4,975,786	1990	Katayama et al.			
4,974,067	1990	Suzuki et al.			
4,924,301	1990	Surbrook			
4,920,501	1990	Sullivan et al.			
4,912,569	1990	Petilli			
4,885,576	1989	Pennebaker et al.			
4,819,075	1989	Imaide et al.			
4,800,442	1989	Rieman et al.			
4,786,975	1988	Postl			
4,783,838	1988	Matsunawa			
4,758,886	1988	Rylander			
4,742,558	1988	Ishibashi et al.			
4,736,254	1988	Kotera et al.			
4,698,691	1987	Suzuki et al.			
4,669,869	1987	Sullivan			
4,657,831	1987	Ambro et al.			
4,477,833	1984	Clark et al.			
4,425,642	1984	Moses et al.			
4,412,256	1983	Heinzl et al.			
4,409,623	1983	Kobayashi et al.			
4,342,046	1982	Kamata			
4,308,553	1981	Roetling			
4,276,569	1981	Kirk, Jr.			
4,084,196	1978	Tissue et al.			

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Page 2 of 3

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INVENTOR(S) : Kevin J. Parker, et. al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

3,085,878 1963 Archer

4,700,235 1987 Gall

"Dithering with Blue Noise", Robert A. Ulichney, Proceedings of the IEEE, Vol. 76, No. 1, January 1988, pp. 56-79.

"Digital Color Reproduction", IBM Technical Disclosure Bulletin, Vol. 28, No. 1, June 1985, pp. 438-439.

Netravali et al., "A Picture Browsing System", IEEE Transactions on Communications, Vol. Com-29, No. 12, December 1981.

Pirsch et al., "Transmission of Gray Level Images by Multilevel Dither Techniques", Computers & Graphics, Vol. 7, 1983, pp. 31-44.

Yoshida et al., "Pel Pattern Predictive Coding of Dithered Images", Fujitsu-Scientific and Technical Journal, Mar. 1984, pp. 99-118.

J.C. Stoffel, J.F. Moreland, "A Survey of Electronic Techniques for Pictorial Image Reproduction", IEEE Transactions, December 1981.

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Page 3 of 3

DATED : August 23, 1994

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

G. Goertzel, G.R. Thompson, "Digital Halftoning on the IBM 4250 Printer",
I.B.M. Journal of Research and Development, January 1987.

Signed and Sealed this

Twenty-fourth Day of January, 1995

Attest:



BRUCE LEHMAN

Attesting Officer

Commissioner of Patents and Trademarks

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INVENTOR(S) : Parker et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

At column 3, line 46, after "pixel" insert "--)-- and after "kernels", delete ")".

At column 8, lines 58-63 should read:

$$h(x,y) = \sum_{i=0}^{\frac{N}{2}-1} \sum_{j=0}^{\frac{N}{2}-1} p[m;n;f_{ij}] \operatorname{rect}\left(\frac{x-mR}{R}\right) \operatorname{rect}\left(\frac{y-nR}{R}\right) \quad (1)$$

At column 10, line 13, replace " $f_g = 1\sqrt{2}R$ " with -- $f_g = (1/\sqrt{2})R$ --.

At column 11, line 62, replace "greater" with --less than--.

Signed and Sealed this
Twenty-fifth Day of July, 1995

Attest:



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At column 11, Equation (4) should read:

$$c[i,j,g+\Delta g]=c[i,j,g] + \overline{p[i,j,g+\Delta g]}; g > \frac{1}{2}$$

At column 14, line 24, replace "F(g)=g³" with --f(g)=g³--.

Signed and Sealed this
Fifth Day of September, 1995

Attest:



BRUCE LEHMAN

Attesting Officer

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