

Patents and Publications
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Patents

US Trademark and Patent Office [listing](#)

- R. Liang, V. Wong M. Marcus, M. Bridges, P. McLaughlin, P. D. Burns, D. Patton, Apparatus for caries detection, US 9,060,690, 2015
- V. Wong, G. Spinelli, P. D. Burns, P. McLaughlin and J-M. Inglese, Method for real-time visualization of caries condition, US 8,866,894, 2014
- V. Wong, J. Milch, J., L. Ray, P. D. Burns, Dental Shade Mapping, US 44719024, 2014
- A. Souza and P. Burns, Noise suppression in cone beam CT projection data, US 8630473, 2104
- R. Liang, V. Wong, M. Marcus, M. Bridges, P. McLaughlin, P. Burns and D. Patton, Apparatus for caries detection, US 8605974, 2013
- V. Wong, J. Milch, L. Ray and P. Burns, Dental shade mapping, US 8571281, 2013
- A. Souza and P. Burns, Noise suppression in cone beam CT projection data, US 8494248, 2013
- A. Souza and P. Burns, Noise suppression in cone beam CT projection data, US 8346007, 2013
- A. Souza and P. Burns, Noise suppression in diagnostic images, US 8306302, 2012
- R. Liang, V. Wong, M. Marcus, M. Bridges, P. McLaughlin, P. Burns and D. Patton, Apparatus for caries detection, US 8270689, 2012
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- P. D. Burns, G. J. Braun and K. M. Sanger, Halftone dot-growth technique based on morphological filtering, US 7365881B2, 2008
- G. J. Braun, P. D. Burns and K. E. Spaulding, Halftone dot-growth technique using a dot edge-detection scheme, US 7116447B2, 2006
- P. D. Burns, Image processing for improvement of color registration in digital images, US 6870564B1, 2005
- P. D. Burns, A. C. Gallagher and A. Lopez-Estrada, Method for modification of non-image data in an image processing chain, US 6707950B1, 2004
- P. J. Kane, T. F. Bouk and P. D. Burns, Method for determining the components of image noise patterns of an imaging device and use of this method in an imaging device, US 6584233 B1, 2003

P. D. Burns and J. E. Redden, Image scanner and method for improved microfilm image quality, US Patent 5617223, 1997

Publications

Software:

Matlab software for evaluation of image resolution for digital cameras and scanners, as per ISO standards.

Book Review:

T. L. Williams, The Optical Transfer Function of Imaging Systems, *J. Electronic Imaging*, **9**: 75, (2000).

Book Chapters:

P. D. Burns, Image Quality Concepts, in the *Handbook of Digital Imaging*, edited by M. Kriss. John Wiley & Sons, Ltd: Chichester, UK, pp. 325-372, 2015

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