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PATENTS GRANTED							
S. No.	Title	Applicant Name(s)	Application no.	Date			
1	Single Color Background Mixed Raster Content (MRC)	Sainarayanan Gopalakrishnan, Rajasekar Kanagasabai and Vignesh D	United States 10142520	November 27, 2018			
2	Method and Apparatus For Automatically Resuming A Print Job From Portable Memory Device	Srinivas Rao and Sainarayanan Gopalakrishnan	United States 10116826	October 30, 2018			
3	System and Method for Halftoning in a print system	Sudhagar Subbaian and Sainarayanan Gopalakrishnan	United States 10079960	September 18, 2018			
4	Systems and Methods for Creating Multi-Layered Optical Character Recognition (OCR) Documents	Sainarayanan Gopalakrishnan, Rajasekar Kanagasabai and Sudhagar Subbaian	United States 10049097	August 15, 2018			
5	Scheme for text only MRC compression	Sainarayanan Gopalakrishnan, Xing Li, Rajasekar Kanagasabai, Clara Cuciurean-Zapan	United States 10043116	August 7, 2018			
6	System and Method for using a Mobile Camera as a Copier	Krishnamurthy VG, Sainarayanan Gopalakrishnan, Mohan VP and Vignesh D	United States 10033901	July 25, 2018			
7	Methods and devices for enhancing edges of a graphic object	Sudhagar Subbaian, Sainarayanan Gopalakrishnan and Dhevendra alagan Palanivel	United States 9973654	May 15, 2018			
8	Document Background Suppression Performed During Color Space Conversion	Xing Li, Vignesh D and Sainarayanan Gopalakrishnan	United States 9898693	Feb 20, 2018			

9	Saving Marking Material Using Threshold Arrays And Toner Reduction Mask	Sudhagar Subbaian and Sainarayanan Gopalakrishnan	United States 9842281	January 26, 2018
10	System and method for handling blank pages during document printing or copying	Kalpanadevi Jeevanantham, Sainarayanan Gopalakrishnan and Raja Dorairaj	United States 9854126	December 12, 2017
11	System for automated text and halftone segmentation	Sudhagar Subbaian, Sainarayanan Gopalakrishnan, Xing Li and Clara Cuciurean	United States 9842281	December 12, 2017
12	Filter configuration for software based image path	Xing Li, Dhevendra alagan Palanivel, Sainarayanan Gopalakrishnan and Vignesh Doss	United States 9736333	August 15, 2017
13	Detecting sizes of documents scanned using handheld devices	Sainarayanan Gopalakrishnan, Vignesh Doss, Sudhagar Subbaian and Dhevendra alagan Palanivel	United States 9712697	July 18, 2017
14	Customized color for multiple raster content format file	Sainarayanan Gopalakrishnan, Xing Li, Clara Cuciurean- Zapan and Rajasekar Kanagasabai	United States 9712698	July18, 2017
15	An image processing method and system for classification of halftone frequencies	Sudhagar Subbaian, Vignesh D and Sainarayanan Gopalakrishnan	United States 9681023	June 13, 2017
16	Methods and systems facilitating generation of digital representations of objects	Sainarayanan Gopalakrishnan, Sudhagar Subbaian, Dhevendra alagan and Anand Arokia Raj Antony Muthu Rayar	United States 9681013	June 13, 2017
17	Methods and systems for estimating skew angle of an image	Sudhagar Subbaian, Sainarayanan Gopalakrishnan, Xing Li, Vignesh Doss and Clara Cuciurean-Zapan	United States 9641724	May 23, 2017
18	Method and system for compressing and converting an image during printing	Dhevendra alagan, Sainarayanan Gopalakrishnan, Xing Li and Sudhagar Subbaian	United States 9641724	May 2, 2017
19	Systems and methods for halftone frequency detection	Dhevendra alagan, Sainarayanan Gopalakrishnan and	United States 9628635	Apr 18, 2017

		Vignesh D		
20	Modifying the size of document content based on a pre-determined threshold value	Sainarayanan Gopalakrishnan, Dhevendra alagan, Rajasekar Kanagasabai and Ramesh Nagarajan	United States 9607360	Mar 28, 2017
21	Methods and systems for image compression	Sainarayanan Gopalakrishnan, Xing Li, Rajasekar Kanagasabai and Clara Cuciurean-Zapan	United States 9596380	Mar 14, 2017
22	Method and system for image processing	Rajasekar Kanagasabai, Sainarayanan Gopalakrishnan, Xing Li, Clara Cuciurean- Zapan and Sudhagar Subbaian	United States 9563961	Feb 7, 2017
23	Inverse halftoning using inverse projection of predicted errors for multi-bit images	Dhevendra alagan, Sunil Kumar, Sainarayanan Gopalakrishnan and Xing Li	United States 9521296	December 13, 2016
24	Scheme to classifying Form fields for Automated Extraction	Sainarayanan Gopalakrishnan, Rajasekar Kanagasabai, Vignesh D, Sudhagar Subbaian and Xing Li,	United States 9384391	July 5, 2016
25	Methods and systems for estimating half-tone frequency of an image	Sainarayanan Gopalakrishnan, Rajasekar Kanagasabai, Xing Li, Clara Cuciurean- Zapan and Pravin Jogdand	United States 9288364	March 15, 2016

Journal Publication

- Dhevendra Alagan Palanivel, Sivakumaran Natarajan and Sainarayanan G,,Mutifractals based multimodal 3D image registration Biomedical Signal Processing and Control, Elsevier 2019
- 2. Karthikeyan, R, Sainarayanan, G & Deepa, SN Optimal Rate Control in H.264 Video Coding Based On Video Quality Metric ,Research Journal of Applied Sciences, Engineering and Technology 2014
- 3. Karthikeyan, R, Sainarayanan, G & Deepa, SN Perceptual video quality assessment in H.264 video coding standard using objective modeling ,SpringerPlus 2014