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Patent Search

Invention Title	ASPT- IDENTIFYING PAPER CURRENCY: AUTOMATIC IDENTIFYING PAPER CURRENCY, STOCKS, STAMPS USING IMAGE PROCESSING TECHNOLOGY
Publication Number	34/2020
Publication Date	21/08/2020
Publication Type	INA
Application Number	202041030474
Application Filing Date	17/07/2020
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	ELECTRONICS
Classification (IPC)	G07D 7/12

Inventor

Name	Address	Country	Nationality
Dr. P. V. N. REDDY (PRINCIPAL & PROFESSOR)	DEPARTMENT OF ECE, S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: principal@svck.edu.in	India	India
Dr. CHUKKA SANTHAIAH (ASSOCIATE PROFESSOR)	DEPARTMENT OF CSE, INSTITUTE OF AERONAUTICAL ENGINEERING HYDERABAD, TELANGANA-500043, INDIA, E-Mail : chukka.santh@gmail.com	India	India
M CHANDRA SEKHAR REDDY (HOD OF ECE DEPARTMENT)	S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: chandra.2030@gmail.com	India	India
Dr. D. AJITHA (PROFESSOR IN ECE DEPARTMENT)	SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, TELANGANA-500043, INDIA. E-Mail: ajithavijay1@gmail.com	India	India

Applicant

Name	Address	Country	Nationality
Dr. P. V. N. REDDY (PRINCIPAL & PROFESSOR)	DEPARTMENT OF ECE, S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: principal@svck.edu.in	India	India
Dr. CHUKKA SANTHAIAH (ASSOCIATE PROFESSOR)	DEPARTMENT OF CSE, INSTITUTE OF AERONAUTICAL ENGINEERING HYDERABAD, TELANGANA-500043, INDIA, E-Mail : chukka.santh@gmail.com	India	India
M CHANDRA SEKHAR REDDY (HOD OF ECE DEPARTMENT)	S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: chandra.2030@gmail.com	India	India
Dr. D. AJITHA (PROFESSOR IN ECE DEPARTMENT)	SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, TELANGANA-500043, INDIA. E-Mail: ajithavijay1@gmail.com	India	India

Abstract:

Patent Title: ASPT- Identifying Paper Currency: AUTOMATIC IDENTIFYING PAPER CURRENCY, STOCKS, STAMPS USING IMAGE PROCESSING TECHNOLOGY ABSTRACT My Invention "ASPT- Identifying Paper Currency "is a technology for automatically identifying paper currency (old pattern, new pattern), stocks, stamps, Coin (old, new), by image processing, optically examining and viewing regions on the currency. The invented Technology accept the graphic pattern scanned is stored as signal information and then compared with signals representing predetermined standard information on the all type of pattern of the currency. The identification technology is obtained upon the concurrence of a predetermined amount of the two information signals being compared and also the system can accommodate lateral shifts of the currency and skew angles of arrival of the currency, and still provides a suitable identification. The system can be used either to sort currency, or to identify a particular denomination while rejecting all other currency denominations. The currency is scanned either in total or in part to determine information about the currency and compare this information to stored information. The invented technology also provide the information and comparison is carried out at a testing station where the information detected is directly compared with the stored information. The result of the currency must be momentarily stopped at which time the comparison can be carried out. Such momentary stoppage provides a non-uniform flow of the currency and results in difficulties during high speed operation.

Complete Specification**Claims:WE CLAIMS**

1. My Invention "ASPT- Identifying Paper Currency "is a technology for automatically identifying paper currency (old pattern, new pattern), stocks, stamps, Coin (old, new), by image processing, optically examining and viewing regions on the currency. The invented Technology accept the graphic pattern scanned is stored as signal information and then compared with signals representing predetermined standard information on the all type of pattern of the currency. The identification technology is obtained upon the concurrence of a predetermined amount of the two information signals being compared and also the system can accommodate lateral shifts of the currency and skew angles of arrival of the currency, and still provides a suitable identification. The system can be used either to sort currency, or to identify a particular denomination while rejecting all other currency denominations. The currency is scanned either in total or in part to determine information about the currency and compare this information to stored information. The invented technology also provide the information and comparison is carried out at a testing station where the information detected is directly compared with the stored information. The result of the currency must be momentarily stopped at which time the comparison can be carried out. Such momentary stoppage provides a non-uniform flow of the currency and results in difficulties during high speed operation.
2. According to claim1# the invention is to the technology for automatically identifying paper currency (old pattern, new pattern), stocks, stamps, Coin (old, new), by image processing, optically examining and viewing regions on the currency. The invention is to the invented Technology accept the graphic pattern scanned is stored as signal information and then compared with signals representing predetermined standard information on the all type of pattern of the currency.
3. According to claim1 2# the invention is to the identification technology is obtained upon the concurrence of a predetermined amount of the two information signals

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Government of India

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Application Details

APPLICATION NUMBER	202041030474
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/07/2020
APPLICANT NAME	1 . Dr. P. V. N. REDDY (PRINCIPAL & PROFESSOR) 2 . Dr. CHUKKA SANTHAIAH (ASSOCIATE PROFESSOR) 3 . M CHANDRA SEKHAR REDDY (HOD OF ECE DEPARTMENT) 4 . Dr. D. AJITHA (PROFESSOR IN ECE DEPARTMENT)
TITLE OF INVENTION	ASPT- IDENTIFYING PAPER CURRENCY: AUTOMATIC IDENTIFYING PAPER CURRENCY, STOCKS, STAMPS USING IMAGE PROCESSING TECHNOLOGY
FIELD OF INVENTION	ELECTRONICS
E-MAIL (As Per Record)	principal@svck.edu.in
ADDITIONAL-EMAIL (As Per Record)	chukka.santh@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	21/08/2020

Application Status

APPLICATION STATUS	Awaiting Request for Examination
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➡ Filed ➡ Published ➡ RQ Filed ➡ Under Examination ➡ Disposed

In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

FORM 1 THE PATENTS ACT 1970(39 of 1970) & The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT (See sections 7, 54 & 135 and rule 20(1))	<u>(FOR OFFICE USE ONLY)</u> Application No: Filing Date Amount of Fees Paid: CBR NO: Signature:
1. APPLICANTS REFERENCE / IDENTIFICATION NO. (AS ALLOTTED BY OFFICE)	

2. TYPE OF APPLICATION [Please tick (✓) at the appropriate category]

Ordinary (✓)		Convention ()		PCT-NP ()	
Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()	Divisional ()	Patent of Addition ()

3A. APPLICANT(S):

Name	Country of Residence	Nationality	Address
Dr. P. V. N. REDDY (PRINCIPAL & PROFESSOR)	INDIA	AN INDIAN NATIONAL	DEPARTMENT OF ECE, S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: principal@svck.edu.in
Dr. CHUKKA SANTHAIAH (ASSOCIATE PROFESSOR)	INDIA	AN INDIAN NATIONAL	DEPARTMENT OF CSE, INSTITUTE OF AERONAUTICAL ENGINEERING HYDERABAD, TELANGANA-500043, INDIA, E-Mail : chukka.santh@gmail.com
M CHANDRA SEKHAR REDDY (HOD OF ECE DEPARTMENT)	INDIA	AN INDIAN NATIONAL	S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: chandra.2030@gmail.com
DR. D. AJITHA (PROFESSOR IN ECE DEPARTMENT)	INDIA	AN INDIAN NATIONAL	SREENIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY, HYDERABAD, TELANGANA-500043, INDIA. E-Mail: ajithavijay1@gmail.com

3B. CATEGORY OF APPLICANT [Please tick (✓) at the appropriate category]

Natural Person (✓)	Other than Natural Person ()		
	Small Entity ()	Startup ()	Others ()

4. INVENTOR(S): [Please tick (✓) at the appropriate category]

Are all the inventor(s) same as the applicant(s) named above?	Yes (✓)	No ()
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If "No", furnish the details of the inventor(s) **N.A**

Name	Nationality	Country of Residence	Address
NA	NA	NA	NA

5. TITLE OF THE INVENTION:

ASPT- Identifying Paper Currency: AUTOMATIC IDENTIFYING PAPER CURRENCY, STOCKS, STAMPS USING IMAGE PROCESSING TECHNOLOGY.

6. AUTHORISED REGISTERED PATENT AGENT(S)		NA
ADDITIONAL PATENT AGENTS	NA	

7. ADDRESS FOR SERVICE OF APPLICANT/ PATENT AGENT(S) IN INDIA Dr. P. V. N. REDDY (PRINCIPAL & PROFESSOR) Address: DEPARTMENT OF ECE, S V COLLEGE OF ENGINEERING, KADAPA, BALAJI NAGAR, KADAPA, AP-516003, INDIA. E-Mail: principal@svck.edu.in	principal@svck.edu.in
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8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION: N.A

Country	App. Number	Filing Date	Name of the Applicant	Title of the Invention	IPC (as classified in the convention country)
NA	NA	NA	NA	NA	NA

9. IN CASE OF PCT NATIONAL PHASE APPLICATION, PARTICULARS OF INTERNATIONAL APPLICATION FILED UNDER PATENT CO-OPERATION TREATY (PCT):

International application number	International filing date as allotted by the receiving office.
NA	NA

10. IN CASE OF DIVISIONAL APPLICATION FILED UNDER SECTION 16, PARTICULARS OF ORIGINAL (FIRST) APPLICATION: N.A

Original (first) application number	Date of filing of Original (first) application
N.A.	N.A.

**11. IN CASE OF PATENT OF ADDITION FILED UNDER SECTION 54,
PARTICULARS OF MAIN APPLICATION OR PATENT: N.A**

Main application / patent Number	Date of filing of main application
N.A.	N.A.

12. DECLARATIONS:

(i) Declaration by the Inventor:

(In case the applicant is an assignee: the inventor(s) may sign herein below or the applicant may upload the assignment or enclose the assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period).

We, the above named inventor is the true & first inventor for this invention and declare that the applicant herein is my assignee or legal representative:

NA

(ii) Declaration by the applicant/s in the convention country:

(In case the applicant in India is different than the applicant in the convention country: the applicant in the convention country may sign herein below or applicant in India may upload the assignment from the applicant in the convention country or enclose the said assignment with this application for patent or send the assignment by post/electronic transmission duly authenticated within the prescribed period)

I/~~We~~, the applicant(s) in the convention country declare that the applicant(s) herein is/~~are my/our~~ assignee or legal representative. : **N.A.**

(iii) Declaration by the applicants:

We, the applicants hereby declare that: -

1. We are in possession of the above-mentioned invention.
2. The **Complete Specification** relating to the invention is filed with this application.
3. The invention as disclosed in the specification uses the biological material from India and the necessary permission from the competent authority shall be submitted by us before the grant of patent to us: **N.A.**
4. There is no lawful ground of objection to the grant of the patent to me/ us.
5. We are the assignees or legal representatives of true and first inventors:
6. The application or each of the applications, particulars of which are given in Para – 8 was the first application in convention country/countries in respect of our invention: **N.A.**
7. We claim the priority from the above mentioned application filed in convention country/countries and state that no application for protection

in respect of the invention had been made in a convention country before that date by us or by any person from which we derive the title: **YES**

8. Our application in India is based on international application under Patent Cooperation Treaty (PCT) as mentioned in Para-9: **N.A.**
9. The application is divided out of our application particulars of which is given in Para-10 and prays that this application may be treated as deemed to have been filed on N.A. Under sec.16 of the Act: **N.A.**
10. The said invention is an improvement in or modification of the invention particulars of which are given in Para-11: **N.A.**

FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION

(a) Form 2

Item	Details	Fee	Remarks
Complete specification) #	No. of pages:		
Claim(s)	No. of claims: No. of pages:		
Abstract	No. of pages:		
Drawing(s)	No. of drawings: No. of pages:		

In case of a complete specification, if the applicant desires to adopt the drawings filed with his provisional specification as the drawings or part of the drawings for the complete specification under rule 13(4), the number of such pages filed with the provisional specification are required to be mentioned here.

1. Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
2. Sequence listing in electronic form **N.A**
3. Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
4. Form 1, 2, 26-1750Rs.
5. Statement and Undertaking on Form-3
6. Declaration of Inventor ship on Form-5
7. Request for Publication Form9 -2750.Rs
8. Form18 Examination Request, 4400.Rs
9. Other Form according to need: 880,1600,2500,4000, ...
10. Power of Authority
11. Other from 4 to 31 According to needed can fill.

Total fee Rs /- **in Cash/ Banker's Cheque /Bank Draft bearing No.....**

Date.....on..... Bank.

We hereby declare that to the best of my knowledge, information and belief the facts and matters stated herein are correct and I request that a patent may be granted to me for the said invention.

Date: 17/7/2020

Dr. P. V. N. REDDY (PRINCIPAL & PROFESSOR)

Dr. CHUKKA SANTHAIAH (ASSOCIATE PROFESSOR)

M CHANDRA SEKHAR REDDY (HOD OF ECE DEPARTMENT)

DR. D. AJITHA (PROFESSOR IN ECE DEPARTMENT)

To,
The Controller of Patent,
The Patent Office, at