Patent Writing: From Basic Till Filing

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Overview

- Introduction to patent
- Importance of patent writing
- Contents of patent writing
- Different forms and fees structure
- Steps wise procedure to file a patent application through IITG Research and Development section
- Patent resources
- About Gandhian Young Technological Innovation (GYTI) Awards 2018

Importance of patent writing

- Nicolas Tesla has 300 patents and Thomas Alva Edition has 2332 patents.
- Edition was a businessman, protected his innovations.
- Exclusive rights.
- Higher returns on investments.
- Opportunity to license or sell the invention.

Contents of patent writing

Title

- Shall be brief, free from fancy expressions or ambiguity and as precise and definite as possible.
- Not exceeding 15 words.

Field of invention

- Should tell the advantages of the invention.
- Provide evidence to support industrial applicability.

Background of the invention/Prior art

- Same as literature survey.
- Describe the invention, by clearly distinguishing it from such a closest prior art.

Objects of invention

- Shall clearly mention the technical problems associated with the existing technology and the solution for that.
- Bringing out the differences between the claimed invention and the prior art.

Summary of the invention

 Should include a summary of invention before giving the details of invention and the method of performing it.

Brief description of drawing

 What different figures tells about the innovation. For ex. "Figure.1 is the 3D moel of the proposed".

Detailed description of the invention

- Description of an invention is required to be furnished with sufficient detail so as to give a complete picture of the invention.
- Bullet points and to be precise.

Claims

- Very important part of the patent writing.
- Claim is a statement of technical facts expressed in legal terms defining the scope of the invention sought to be protected.
- What is not claimed in the "claims" stand disclaimed and is open to public use, even if the matter is disclosed in the description.



Figures

- Shall be on A4 size sheets with a clear margin of at least 4 cm on top and left hand and 3 cm at the bottom and right hand of every sheet.
- Dimensions shall not be marked on the drawing.
- Drawings shall be sequentially or systematically numbered at the right hand bottom corner.

Abstract

- Abstract should not be more than 150 words. It should tell which technical field the innovation belongs, technical problem to which the invention relates and the solution to the problems.
- It should also tell the end users of the innovation.

APPLICATION FOR GRANT OF PATENT

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3A. APPLI	CANT (S)						
Name Baobel Am		Indian	yAddress Department of Electronics and Electrical Engineering,				
Baghet Am	it Kumar	Indian	Indi		of Technology C	d Electrical Engineering, Suwahati, Guwahati, Pin -	
Kulkarni Sh	ashank Satish	Indian				Institute of Technology	
	Guwah		rahati, Guv	ahati, Guwahati, Pin -781039, Assam, India.			
Navak Sisir	Kumar	Indian				d Electrical Engineering	
,		1	Indi	an Institute	titute of Technology Guwahati, Guwahati, Pin -		
		- 1	781	81039, Assam, India.			
D. Senthil	Kumar	Indian			O Lab, BE Com	plex Jalahalli Bangalore,Pin-	
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4. INVENT	OR (S)[Please ticl	k(2 at the app	ropri	ate categor	yl		
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applicant(s)	named above?						
5. TITLE C	OF THE INVENT	ION: Paraboli	c pvi	ramidal b	orn antenna	1	
6 AUTHO	RISED REGISTE	RED PATEN	F	IN/PA N	(0.		
AGENT(S)				Name			
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ADDRES	S FOR CORRES	PONDENCE	_		ımar Navak		
	ICANT / AUTHO			Room No. 006, G-Block, Academic Complex			
	GENT IN INDIA			Department of Electronics and Electrical			
				Engineering, Indian Institute of Technology			
1				Guwahati, Guwahati, Pin:781039			
l					knayak@iitg.em		
	OF APPLICATI						
CONVENT	TON COUNTRY,	PARTICULA	RSO	F CONVE	NTIONAL API		
Country	Application Number	Filing Date	Name of the		Applicant (s)	Title of the Invention	
Nil							
						PARTICULARS OF	
	ATIONAL APPLI	CATION FILE	ED U	NDER PA	TENT CO-OPE	RATION	
TREATY							
International application number.					International filing date as allotted by the receiving		
				office.			
	Nil		_				
10. PAR	TICULARS FOR	FILING DIVI	SION				
Original (f	irst) application nu	mber.		Date	of filing of Orig	inal (first) application	
Nil							

Figure: Form 1.

COMPLETE SPECIFICATION

FORM 2 THE PATENTS ACT, 1970 (39 of 1970) & The Patents Rules, 2003 PROVISIONAL / COMPLETE SPECIFICATION (See section 10 and rule 13)

TITLE OF THE INVENTION: Parabolic pyramidal horn antenna 2. APPLICANT(S) (a) NAME: Baghel Amit Kumar (b) NATIONALITY: Indian (c) ADDRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, Assam, India. (a) NAME: Kulkarni Shashank Satish (b) NATIONALITY: Indian (e) ADDRESS: Centre for Energy, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, Assam, India (a) NAME: Navak Sisir Kumar (b) NATIONALITY: Indian (c) ADDRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, Assam, India. (a) NAME: D. Senthil Kumar (b) NATIONALITY: Indian (c) ADDRESS MTRDC, DRDO Lab, BE Complex Jalahalli Bangalore, Pin-560013. 3. PREAMBLE TO THE DESCRIPTION COMPLETE PROVISIONAL. The following specification particularly describes the The following specification describes invention and the manner in which it is to be invention performed. 4. DESCRIPTION (Description shall start from next page) Please refer to the attachment 5. CLAIMS (not applicable for provisional specification. Claims should start with the preamble -"We claim" on separate page) Please refer to the attachment 6. DATE AND SIGNATURE (to be given on the last page of specification) 7. ABSTRACT OF THE INVENTION (to be given along with complete specification on the separate page) Please refer to the attachment *Repeat boxes in case of more than one entry *To be signed by the applicant(s) or the authorized registered patent agent *Name of the applicant should be given in full, family name in the beginning *Complete address of the applicant should be given stating with postal index no. /code, state and *Strike out the column which is/are not applicable

Figure: Form 2.

STATEMENT AND UNDERTAKING UNDER SECTION 8



Figure: Form 3.

DECLARATION AS TO INVENTORSHIP



Figure: Form 5.



REQUEST FOR PUBLICATION

भाग II – खण्ड 3(II)] भा	रत वर राजपत्र : अस्ताधारण 91							
FORM 9 THE PATENTS ACT, 1970 (39 of 1970) & & The Patents Rules, 2003								
REQUEST FOR PUBLICATION See section 11A (2): rule 24A								
1. Name, address and nationality	We ¹							
of the applicant(s).	NAME: Baghel Amit Kumar NATIONALITY: Indian ADDRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, India							
	NAME: Shashank Satish Kulkarni NATIONALITY: Indian ADDRESS: Centre for Energy, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, India.							
	NAME: Nayak Sisir Kumar NATIONALITY: Indian ADPRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Gawahati, Pin: 781039, India.							
	NAME: D. Senthil Kumar NATIONALITY: Indian ADDRESS: MTEDC, DRDO Lab, BE Complex Jalahalli Bangalore,Pin-560013							
	hereby request for early publication of my/our application for Patent No							
2. To be signed by the applicant or his authorized registered patent agent.								
Signature 3 Name of the natural person who has signed.	Baghel Shashank Nayak Sisir D. Senthi Amit Kumar Satish Kumar Kumar Kulkarni							
Dated:	To, The Controller of Patents, The Patent Office, Kolkata							
Enclosed Bank Draft for feebearing nodated								
Note: For fee: See First Schedule								

Figure: Form 9.

REQUEST/ EXPRESS REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT



Figure: Form 18A.

Table: 1.THE FIRST SCHEDULE

On what payable	For physical filing
Form 1	1750
Request for publication	2750
Per claim more than 10	350
For each sheet of specification in addition to 30	180
Request for examination of application for patent-18(i)	4400

Steps wise procedure to file a patent application through IITG Research and development section

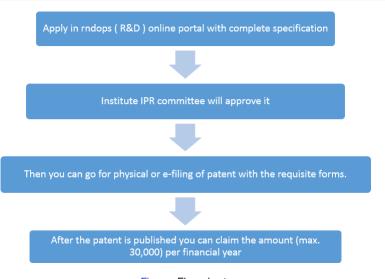


Figure: Flow chart.

Patent resources

- The patent search portal "https://worldwide.espacenet.com/".
- Indian patent "http://www.ipindia.nic.in/".
- Afte the submission of the patent, you can search for your published patent after every week. The Indian patent office publishes its journal every week.
- You can search for your invention. The invention files will also be uploaded on the Indian patent website.

About Gandhian Young Technological Innovation awards 2018

- More than 3000 + projects were submitted.
- 23 projects were selected for BIRAC-GYTI and GYTI awards 2018 and presented by president of India in Rastrapati Bhavan Cultural Center.
- 28 project were selected for GYTI appreciation presented by Dr. Harsh Vardhan.



Figure: Award given by Honorable Pol



SRISTI

Society for Research and Initiatives for Sustainable Technologies and Institutions



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BIIS:Opportunity for Women biotechnology students to work on grassroots innovations and microbial diversity

41st Shodh Yatra in Andaman and Nicobar islands

Nominations sought for SRISTI Samman Awards 2018

Sattvik 2017

Press release note - GYTI Awards and SRISTI Samman Award 2017

SRISTI Samman- GYTI Grassroot Awards 2017

Sheeren Shekh's simple vet effective idea inspire policy

Invitation of quotations from contractors for construction work

Proposal / fellowships-forvalidating-grassroots-SRISTI-BIRAC initiatives

SRISTI is a developmental voluntary organization set up to strengthen the creativity of grassroots inventors, innovators and ecopreneurs engaged in conserving biodiversity and developing eco-friendly solutions to local problems. Here, on the website of SRISTI, you can read about its activities and participate in them, download its newsletter honeybee and research papers and much more...More Details

Gandhian Young Technological Innovation (GYTI) Awards 2018

Innovation **GYTI Awards 2018**

18 | Festival of Innovation and Entrepreneurship | Rashtrapati



Sattvik 2017 - 15th Traditional Food Festival 23rd to 25th December, 2017



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Figure: SRISTI website (http://www.sristi.org/cms/).

References

- 1 https://en.wikipedia.org/wiki/Patent.
- 2 https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr01423.html.

Thank You