

Patent Writing: From Basic Till Filing

Amit Kumar Baghel



Department of Electronics and Electrical Engineering
IIT Guwahati

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- 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

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

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 tell about the innovation. For ex. "Figure.1 is the 3D model 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

32 THE GAZETTE OF INDIA: EXTRAORDINARY (PART II - SEC. 3(1)(i))

FORM 1 THE PATENTS ACT 1970 (39 of 1970) & The Patents Rules, 2003 APPLICATION FOR GRANT OF PATENT (See section 7, 54 & 135 and rule 20 (1))		(FOR OFFICE USE ONLY) Application No: Filing Date: Amount of Fee Paid: CBR No: Signature:	
1. APPLICANT'S REFERENCE/IDENTIFICATION NO.(AS ALLOTTED BY OFFICE)			
2. TYPE OF APPLICATION			
Ordinary <input checked="" type="checkbox"/> (2)			
3A. APPLICANT (S)			
Name	Nationality	Address	
Haghel Amit Kumar	Indian	Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin - 781039, Assam, India.	
Kulkarni Shashank Satish	Indian	Centre for Energy, Indian Institute of Technology Guwahati, Guwahati, Pin - 781039, Assam, India.	
Nayak Sisir Kumar	Indian	Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin - 781039, Assam, India.	
D. Senthil Kumar	Indian	MTRDC, DRDO Lab, BE Complex Jalahalli Bangalore, Pin- 560013	
3B. CATEGORY OF APPLICANT			
Natural Person <input checked="" type="checkbox"/> (2)			
4. INVENTOR (S) (Please tick <input checked="" type="checkbox"/> at the appropriate category)			
Are all the inventor(s) same as the applicant(s) named above? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
5. TITLE OF THE INVENTION: Parabolic pyramidal horn antenna			
6-AUTHORISED-REGISTERED-PATENT AGENT(s)		INPA-NG- Name: Mobile No:	
7. ADDRESS FOR CORRESPONDENCE OF APPLICANT / AUTHORIZED PATENT AGENT IN INDIA		Sisir Kumar Nayak Room No. 006, G-Block, Academic Complex Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039 E-mail: sknayak@iitg.ernet.in	
8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTIONAL APPLICATION			
Country	Application Number	Filing Date	Title of the Invention
Nil	-	-	-
9. IN CASE OF TREATY (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.	
Nil		-	
10. PARTICULARS FOR FILING DIVISIONAL APPLICATION			
Original (first) application number.		Date of filing of Original (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)

1. 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	
(c) ADDRESS: Centre for Energy, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, Assam, India	
(a) NAME: Nayak 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	
PROVISIONAL: The following specification describes invention	COMPLETE: The following specification particularly describes the invention and the manner in which it is to be 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	
Note: *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 country *Strike out the column which is/are not applicable	

Figure: Form 2.

STATEMENT AND UNDERTAKING UNDER SECTION 8

<u>भाग II - सूचना (iii)</u>	<u>भाग III सूचना : प्रस्तावना</u>	85
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FORM 3
THE PATENT ACT, 1970
(39 OF 1970)
&
The Patents Rules, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
(See section 8, rule 12)

1. Name of the applicant(s): We

2. Name, address and nationality of the joint applicant Baghel Amit Kumar, Kulkarni Shashank Satish, Nayak Sisir Kumar, and D. Senthil Kumar

(i) that we have not made any application for the same/substantially the same invention outside India.

Or

(ii) that we who have made this application No. _____ alone/jointly with _____ made for the same/substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:

Name of the Country _____ **Date of application** _____

Application _____ status of the _____ Date of _____ of No. _____ Application _____ publication _____ grant _____ (iii) that the right in the application(s) has/have been assigned to _____

3. Name and address of the assignee _____

That we undertake that up to the date of grant of the patent, by the Controller, We would keep him informed in writing the details regarding corresponding applications for patents filed outside India within three months from the date of filing of such application.

4. To be signed by the applicant or his authorized registered patent agent. Dated: _____

5. Name of the natural person who has signed Baghel Amit Kumar Kulkarni Shashank Satish Nayak Sisir Kumar D. Senthil Kumar

To,
 The Controller of Patent
 The Patent Office, Kolkata

Figure: Form 3.

DECLARATION AS TO INVENTORSHIP

भाग II - प्रकरण 3(ii)	भारत का राजपत्र : अधिसूचना	87
FORM 5 THE PATENT ACT, 1970 (39 OF 1970) & The Patents Rules, 2003 DECLARATION AS TO INVENTORSHIP [See section 10(6) and rule 13(6)]		
1. NAME OF APPLICANT(S) Baghel Amit Kumar, Kulkarni Shashank Satish, Nayak Sisir Kumar, and D. Senthil Kumar Hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed.		
2. INVENTOR(S) (a) NAME: Baghel Amit Kumar (b) NATIONALITY: Indians (c) ADDRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, 781039, India. (a) NAME: Kulkarni Shashank Satish (b) NATIONALITY: Indian (c) ADDRESS: Centre for Energy, Indian Institute of Technology Guwahati, Guwahati, 781039, India. (a) NAME: Nayak Sisir Kumar (b) NATIONALITY: Indian (c) ADDRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, 781039, India. (a) NAME: D. Senthil Kumar (b) NATIONALITY: Indian (c) ADDRESS: MTRDC, DRDO Lab, BE Complex Jalahalli Bangalore, Pin-560013.		
Dated: _____ Signature :- _____ Name of the signatory :- <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Baghel Amit Kumar Kulkarni Shashank Satish Nayak Sisir Kumar D. Senthil Kumar </div>		
3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT (S) IN THE CONVENTION COUNTRY:- Dated this _____ Day of _____ Signature :- _____		
To, The Controller of Patent The Patent Office, at Kolkata Note:- *Repeat boxes in case of more than one entry. *To be signed by the applicant(s) or by authorized registered patent agent otherwise mentioned. *Name of the inventor and applicant should be given in full, family name in the beginning. *Complete address of the inventor should be given stating the postal index no./code, state and country.		

Figure: Form 5.

REQUEST FOR PUBLICATION

भाग 11 - खण्ड 9(ii) भारत में उपकरण : आवेदनपत्र 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 We¹
 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
ADDRESS: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, India.

NAME: D. Senthil Kumar
NATIONALITY: Indian
ADDRESS: MTRDC, DRDO Lab, BE Complex Jalahalli Bangalore, Pin-560013.

hereby request for early publication of my/our application for Patent No. dated under section 11A (2) of the Act

2. To be signed by the applicant or his authorized registered patent agent.

Signature

3 Name of the natural person who has signed.

Baghel Amit Kumar	Shashank Satish Kulkarni	Nayak Sisir Kumar	D. Senthil Kumar
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Date:

To,
 The Controller of Patents,
 The Patent Office, Kolkata

Enclosed Bank Draft for fee bearing no dated

Note: For fee: See First Schedule

Figure: Form 9.

REQUEST/ EXPRESS REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT

<small>फॉर्म 18 - खण्ड 3(ii) भारत का श्रावण : असाधारण</small> FORM 18 THE PATENT ACT, 1970 <small>(39 of 1970)</small> & THE PATENTS RULES, 2003 REQUEST/ EXPRESS REQUEST FOR EXAMINATION OF APPLICATION FOR PATENT <small>[See section 11B and rules 20(4) (i), 24B (1) (i)]</small>		<small>101</small> (FOR OFFICE USE ONLY) RQ. No.: Filing Date: Amount of Fee paid: CBR No: Signature:
1. APPLICANT(S)/ OTHER INTERESTED PERSON(S) (a) Name: Baghel Amit Kumar (b) Nationality: Indian (c) Address: Department of Electronics and Electrical Engineering, Guwahati, Pin: 781039, India (a) Name: Kulkarni Shashank Satish (b) Nationality: Indian (c) Address: Centre for Energy, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, India (a) Name: Nayak Sisir Kumar (b) Nationality: Indian (c) Address: Department of Electronics and Electrical Engineering, Indian Institute of Technology Guwahati, Guwahati, Pin: 781039, India (a) Name: D. Senthil kumar (b) Nationality: Indian (c) Address: MTRDC, DRDO Lab, BE Complex Jalahalli Bangalore, Pin:-560013		
2. STATEMENT IN CASE OF REQUEST FOR EXAMINATION MADE BY THE APPLICANT(S) I/We hereby request that my/our application for patent no. filed on for the invention titled Parabolic pyramidal horn antenna shall be examined under sections 12 and 13 of the Act. Or I/We hereby make an express request that my/our application for patent no. filed on based on Patent Cooperation Treaty (PCT) application no. dated made in country shall be examined under sections 12 and 13 of the Act, immediately without waiting for the expiry of 31 months as specified in rule 20(4)(i).		

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

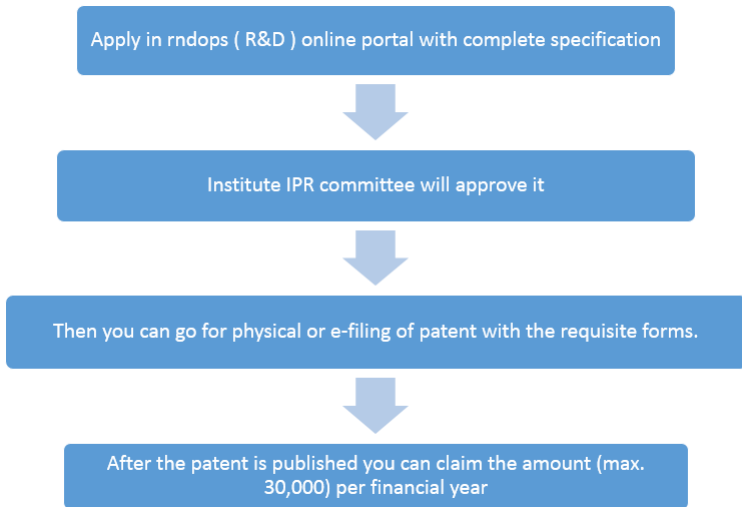


Figure: Flow chart.

- The patent search portal "<https://worldwide.espacenet.com/>".
- Indian patent "<http://www.ipindia.nic.in/>".
- After 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 Rashtrapati Bhavan Cultural Center.
- 28 project were selected for GYTI appreciation presented by Dr. Harsh Vardhan.



Figure: Award given by Honorable Pol



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Announcement

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 yet effective idea inspire policy makers

Invitation of quotations from contractors for construction work

Proposal / fellowships-for-validating-grassroots-practices are Invited as per 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



18 | Festival of Innovation and Entrepreneurship | Rashtrapati

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



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In News

- **BIIS: Opportunity for Women biotechnology students to work on grassroots innovations and microbial diversity**
- **This initiative from Gujarat is on a mission to popularise traditional recipes from every nook and corner of the country**
- **BIIS: Opportunity for technology students to work on grassroots innovations**
- **Amdavadis in for an action-packed year end**
- **Far-flung, neglected for decades, Gurez Valley longs for attention**

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

1 <https://en.wikipedia.org/wiki/Patent>.

2 <https://www.ic.gc.ca/eic/site/cipointernet-internetopic.nsf/eng/wr01423.html>.

Thank You