

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201921016540 A

(19) INDIA

(22) Date of filing of Application :25/04/2019

(43) Publication Date : 17/05/2019

(54) Title of the invention : IMC-CHARGER: INTELLIGENT MOBILE PHONE PROTECTIVE CASE WITH SOLAR CHARGER THIN BATTERY

(51) International classification

:H02J  
7/00

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:NA

Filing Date

:NA

(87) International Publication No

:NA

(61) Patent of Addition to Application Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

**1)PROF. DR. S.B. CHORDIYA**

Address of Applicant :SURYADATTA GROUP OF INSTITUTE, SURYABHAVAN, S. NO. 342, BAVDHAN, PUNE 411021, MH, INDIA Maharashtra India

**2)DR. BADAL SONI**

**3)PROF.( DR).P.SANTOSH KUMAR PATRA**

**4)LAKSHMI ANUSHA KOTHAMASU**

**5)DR. K. VENKATESH SHARMA**

**6)M. VENKATESWARLU**

**7)UPPADA GAUTAMI**

**8)SURESH KUMAR KOLLIMALLA**

**9)PROF. BASWARAJ SHIVANAND MASHALKAR**

**10)PROF.(DR.) BEG RAJ**

(72)Name of Inventor :

**1)PROF. DR. S.B. CHORDIYA**

**2)DR. BADAL SONI**

**3)PROF.( DR).P.SANTOSH KUMAR PATRA**

**4)LAKSHMI ANUSHA KOTHAMASU**

**5)DR. K. VENKATESH SHARMA**

**6)M. VENKATESWARLU**

**7)UPPADA GAUTAMI**

**8)SURESH KUMAR KOLLIMALLA**

**9)PROF. BASWARAJ SHIVANAND MASHALKAR**

**10)PROF.(DR.) BEG RAJ**

(57) Abstract :

This invention very useful of common Indian people who use the mobile IMC-Charger {INTELLIGENT MOBILE PHONE PROTECTIVE CASE WITH SOLAR CHARGER THIN BATTERY } Traditional mobile charger is having cable with adapter to charge mobile and to charge mobile needs power connection outlet. In traditional mobile user need to carry charger and need to plug cable to charge mobile. So this IMC-Charger no need to carry charging accessories with user. Also traditional mobile get switched off when battery charging gets finish, but this new invention IMC-Charger having auto charging facility also have Wi-Fi charging facility that means when this mobile comes under 7% battery charging then automatically start charging process. IMC-Charger provides protection of mobile if you™re mobile is through the ground position at certain Height and also provide the case of mobile is many attractive colors with witless thin solar plate.

No. of Pages : 10 No. of Claims : 5



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Application Details	
APPLICATION NUMBER	201921016540
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/04/2019
APPLICANT NAME	1 . PROF. DR. S.B. CHORDIYA 2 . DR. BADAL SONI 3 . PROF.( DR).P.SANTOSH KUMAR PATRA 4 . LAKSHMI ANUSHA KOTHAMASU 5 . DR. K. VENKATESH SHARMA 6 . M. VENKATESWARLU 7 . UPPADA GAUTAMI 8 . SURESH KUMAR KOLLIMALLA 9 . PROF. BASWARAJ SHIVANAND MASHALKAR 10 . PROF.(DR.) BEG RAJ
TITLE OF INVENTION	IMC-CHARGER: INTELLIGENT MOBILE PHONE PROTECTIVE CASE WITH SOLAR CHARGER THIN BATTERY
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	dr.bksarkar2003@yahoo.in
ADDITIONAL-EMAIL (As Per Record)	dr.bksarkar2003@yahoo.in
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/05/2019



Office of the Controller General of Patents, Designs & Trade Marks  
Department of Industrial Policy & Promotion,  
Ministry of Commerce & Industry,  
Government of India

(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in/index.htm>)

Document Name	Created Date/Uploaded Date
Abstract1.jpg	04/05/2019
201921016540-COMplete SPECIFICATION [25-04-2019(online)].pdf	25/04/2019
201921016540-DRAWINGS [25-04-2019(online)].pdf	25/04/2019
201921016540-ENDORSEMENT BY INVENTORS [25-04-2019(online)].pdf	25/04/2019
201921016540-FORM 1 [25-04-2019(online)].pdf	25/04/2019
201921016540-FORM 3 [25-04-2019(online)].pdf	25/04/2019
201921016540-FORM-9 [25-04-2019(online)].pdf	25/04/2019

<b>FORM 1</b> THE PATENTS ACT 1970 (39 of 1970) & The Patents Rules, 2003 <b>APPLICATION FOR GRANT OF PATENT</b> (See sections 7, 54 & 135 and rule 20(1))	<b><u>(FOR OFFICE USE ONLY)</u></b> 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]**

<b>Ordinary (✓)</b>		Convention ( )		PCT-NP ( )	
Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )	Divisional ( )	Patent of Addition ( )

**3A. APPLICANT(S):**

Name	Nationality	Country of Residence	Address
PROF. DR. S.B. CHORDIYA FOUNDER PRESIDENT & CHAIRMAN	AN INDIAN NATIONAL	INDIA	SURYADATTA GROUP OF INSTITUTE, SURYABHAVAN, S. NO. 342, BAVDHAN, PUNE - 411021, MH, INDIA
DR. BADAL SONI	AN INDIAN NATIONAL	INDIA	DEPARTMENT OF COMPUTER ENGINEERING, NIT- SILCHAR, ASSAM, INDI NIT ROAD, FAKIRATILLA, SILCHAR, ASSAM 788010, E-MAIL: soni.badal88@gmail.com PAN NO: EQIPS1474J
PROF. (DR). P. SANTOSH KUMAR PATRA (PRINCIPAL)	AN INDIAN NATIONAL	INDIA	ST. MARTIN'S ENGINEERING COLLEGE, NEAR, SY. NO.98 & 100, DULAPALLY ROAD, DHULAPALLY, KOMPALLY, HYDERABAD, TELANGANA 500014, INDIA
LAKSHMI ANUSHA KOTHAMASU	AN INDIAN NATIONAL	INDIA	H.NO:10-1-85, PLOT NO: 241, RTC COLONY, RAMPAQLLY, HYDERABAD-501301, INDIA
DR. K. VENKATESH SHARMA	AN INDIAN NATIONAL	INDIA	CVR COLLEGE OF ENGINEERING, (M), RANGAREDDY (D, VASTUNAGAR, MANGALPALLI (V), PIN CODE 501510, IBRAHIMPATNAM, POCHARAM, HYDERABAD, TELANGANA
M. VENKATESWARLU	AN INDIAN NATIONAL	INDIA	SR. ASSISTANCE PROFESSOR ECS DEPT. ADITYA ENGINEERING COLLEGE, ADITYA NAGAR, ADB RAOD, SURAMPALAM, PIN- 533437(CC-A9) INDIA PAN NO: AXXPM1684L
UPPADA GAUTAMI (DEPT. OF CSE)	AN INDIAN NATIONAL	INDIA	NIT-ANDHRA PRADESH ,PLOT NO: 75-A, D. NO: 40-1-9/1, KASTURINAGAR, SALAGRAMAPURAM, VISAKHAPATNAM, 530024, AP , INDIA, PAN NO: ADNPU3089P, E- MAIL:ugautami99@gmail.com
SURESH KUMAR KOLLIMALLA	AN INDIAN NATIONAL	INDIA	GMR INSTITUTE OF TECHNOLOGY ANDHRA PRADESH, Address: 9-4-189, KRISHNA NAGAR, GAJUWAKA VIZAG 530026, AP, PAN NO: BENPK8628G, E-MAIL: skollimall@gmail.com

PROF. BASWARAJ SHIVANAND MASHALKAR	AN INDIAN NATIONAL	INDIA	FL NO-304, CHITRA , SUVIDHA AMBAR SOCIETY, NEAR, ZEAL COLLEGE , NARHE PUNE-411041, MH, INDIA
PROF.(DR.) BEG RAJ	AN INDIAN NATIONAL	INDIA	FL NO-304, CHITRA , SUVIDHA AMBAR SOCIETY, NEAR, ZEAL COLLEGE , NARHE PUNE-411041, MH, INDIA

**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 ( )
---	---------	--------

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:**

**IMC-Charger: INTELLIGENT MOBILE PHONE PROTECTIVE CASE WITH SOLAR CHARGER THIN BATTERY**

<b>6. AUTHORISED REGISTERED PATENT AGENT(S)</b>	NA
<b>ADDITIONAL PATENT AGENTS</b>	NA

<b>7. ADDRESS FOR SERVICE OF APPLICANT/ PATENT AGENT(S) IN INDIA</b> PROF. DR. S.B. CHORDIYA FOUNDER PRESIDENT & CHAIRMAN  SURYADATTA GROUP OF INSTITUTE, SURYABHAVAN, S. NO. 342, BAVDHAN, PUNE - 411021, MH, INDIA	Mobile No.: 8059794469 E-mail: <a href="mailto:dr.bksarkar2003@yahoo.in">dr.bksarkar2003@yahoo.in</a>
--	--

**8. IN CASE OF APPLICATION CLAIMING PRIORITY OF APPLICATION FILED IN CONVENTION COUNTRY, PARTICULARS OF CONVENTION APPLICATION: N.A**

Country	Appln. 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 are 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.

- (b) Complete specification (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
- (c) Sequence listing in electronic form **N.A**
- (d) Drawings (in conformation with the international application)/as amended before the International Preliminary Examination Authority (IPEA), as applicable (2 copies) **N.A**
- (e) Statement and Undertaking on Form-3

(f) Declaration of Inventor ship on Form-5

(g) Request For Publication Form-9 : 2750.Rs

(h) Power of Authority

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.

**Dated this    day of.....2019**

PROF. DR. S.B. CHORDIYA

DR. BADAL SONI

PROF.( DR).P.SANTOSH KUMAR PATRA

LAKSHMI ANUSHA KOTHAMASU

DR. K. VENKATESH SHARMA

M. VENKATESWARLU

UPPADA GAUTAMI

SURESH KUMAR KOLLIMALLA

PROF. BASWARAJ SHIVANAND MASHALKAR

PROF.(DR.) BEG RAJ

To,

The Controller of Patent,

The Patent Office, at Mumbai



**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)**

**PROF. DR. S.B. CHORDIYA, DR. BADAL SONI, PROF. (DR).P.SANTOSH KUMAR PATRA, LAKSHMI ANUSHA KOTHAMASU, DR. K. VENKATESH SHARMA, M. VENKATESWARLU, UPPADA GAUTAMI, SURESH KUMAR KOLLIMALLA, PROF. BASWARAJ SHIVANAND MASHALKAR, PROF.(DR.) BEG RAJ,**

hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of my/our application numbered **201921016540** dated **25/04/2019** is/are

**2. INVENTOR(S)**

Name	Country	Nationality	Address
PROF. DR. S.B. CHORDIYA	India	India	SURYADATTA GROUP OF INSTITUTE, SURYABHAVAN, S. NO. 342, BAVDHAN, PUNE – 411021, MH, INDIA
DR. BADAL SONI	India	India	DEPARTMENT OF COMPUTER ENGINEERING, NIT- SILCHAR, ASSAM, INDI NIT ROAD, FAKIRATILLA, SILCHAR, ASSAM 788010, :
PROF.( DR).P.SANTOSH KUMAR PATRA	India	India	ST. MARTIN'S ENGINEERING COLLEGE, NEAR, SY. NO.98 & 100, DULAPALLY ROAD, DHULAPALLY, KOMPALLY, HYDERABAD, TELANGANA 500014, INDIA
LAKSHMI ANUSHA KOTHAMASU	India	India	H.NO:10-1-85, PLOT NO: 241, RTC COLONY, RAMPAQLLY, HYDERABAD-501301, INDIA
DR. K. VENKATESH SHARMA	India	India	CVR COLLEGE OF ENGINEERING, (M), RANGAREDDY (D, VASTUNAGAR, MANGALPALLI (V), PIN CODE501510, IBRAHIMPATNAM, POCHARAM, HYDERABAD, TELANGANA
M. VENKATESWARLU	India	India	SR. ASSISTANCE PROFESSOR ECS DEPT. ADITYA ENGINEERING COLLEGE, ADITYA NAGAR, ADB RAOD, SURAMPALAM, PIN- 533437(CC-A9) INDIA

UPPADA GAUTAMI	India	India	NIT-ANDHRA PRADESH ,PLOT NO: 75-A, D. NO: 40-1-9/1, KASTURINAGAR, SALAGRAMAPURAM, VISAKHAPATNAM, 530024,AP , INDIA,
SURESH KUMAR KOLLIMALLA	India	India	GMR INSTITUTE OF TECHNOLOGY ANDHRA PRADESH, Address: 9-4-189, KRISHNA NAGAR, GAJUWAKA VIZAG 530026,AP,
PROF. BASWARAJ SHIVANAND MASHALKAR	India	India	PROF. BASWARAJ SHIVANAND MASHALKAR FL NO-304, CHITRA , SUVIDHA AMBAR SOCIETY, NEAR, ZEAL COLLEGE , NARHE PUNE-411041, MH, INDIA
PROF.(DR.) BEG RAJ	India	India	FL NO-304, CHITRA , SUVIDHA AMBAR SOCIETY, NEAR, ZEAL COLLEGE , NARHE PUNE-411041, MH, INDIA
Dated this. <b>25/04/2019</b> Day of <b>2019</b>			
Signature			
Name of the signatory			
<b>3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:--</b>			
We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).			
Dated this. <b>25/04/2019</b> .Day of <b>2019</b>			
Signature			
Name of the signatory			
<b>4. STATEMENT</b>	(to be signed by the additional inventor(s) not mentioned in the application form)		
I/We assent to the invention referred to in the above declaration, being included in the complete specification filed in pursuance of the stated application.			
Dated this(Final Payment Date):-----			
Signature			
Name of the signatory			

This form is electronically generated.