We Claim:

1. A portable snake detection and warning device (100), said device (100) comprising:

a set of sensors (104) configured to sense in real time one or more signals from a pre-defined proximity of the device (100);

a control unit (108) operatively coupled to the set of sensors (104), the control unit (108) comprising one or more processors coupled to a memory, the memory storing instructions executable by the processor to:

extract one or more parameters pertaining to frequency and intensity of the sensed one or more signals, wherein the extracted one or more parameters are associated with the sensed one or more signals; and

classify the sensed one or more signals by matching the extracted one or more parameters with a pre-loaded dataset comprising a set of intensities and frequencies of one or more sound signals associated with snakes; and

generate an alert signal based on positive matching of the extracted one or more parameters and the pre-loaded dataset; wherein the generated alert signal is indicative of detection of the snake in the pre-defined close proximity of the device (100)~~.~~; and

~~2. The device as claimed in claim 1, wherein the device comprises~~ an alert unit (106) operatively coupled with the control unit (108), ~~and wherein the alert unit configured~~ to generate any or a combination of an audio and a visual alert based on the generated alert signal~~.~~, and

~~3. The device as claimed in claim 2~~, wherein the alert unit (106) comprises a vibration unit~~,~~ ~~and wherein the vi~~ to generate a vibrating alert based on the generated alert signal.

~~4~~2. The device (100) as claimed in claim 1, wherein the set of sensors (104) comprises a microphone coupled with a resonating device to enable sensing of the one or more signals in a frequency range of 10 Hz to 1 KHz~~.~~, and

~~5. The device as claimed in claim 4,~~ wherein the resonating device comprises vibrating plates configured ~~such that~~ to enable sensing of frequencies less than ~~about~~ 80 hertz~~.~~

~~6. The device as claimed in claim 4, the resonating device comprises vibrating plates configured such that to reduce the bulkiness of microphone and reduce complexity of processing~~ and classifying one or more parameters pertaining to frequency and intensity of the sensed one or more signals.

~~7~~3. The device (100) as claimed in claim 1, wherein the device (100) comprises an illumination unit (102) to illuminate the area in close proximity of the device (100).

AMENDED CLAIMS: CLEAN COPY

We Claim:

1. A portable snake detection and warning device (100), said device (100) comprising:

a set of sensors (104) configured to sense in real time one or more signals from a pre-defined proximity of the device (100);

a control unit (108) operatively coupled to the set of sensors (104), the control unit (108) comprising one or more processors coupled to a memory, the memory storing instructions executable by the processor to:

extract one or more parameters pertaining to frequency and intensity of the sensed one or more signals, wherein the extracted one or more parameters are associated with the sensed one or more signals; and

classify the sensed one or more signals by matching the extracted one or more parameters with a pre-loaded dataset comprising a set of intensities and frequencies of one or more sound signals associated with snakes; and

generate an alert signal based on positive matching of the extracted one or more parameters and the pre-loaded dataset; wherein the generated alert signal is indicative of detection of the snake in the pre-defined close proximity of the device (100); and

an alert unit (106) operatively coupled with the control unit (108), to generate any or a combination of an audio and a visual alert based on the generated alert signal, and, wherein the alert unit (106) comprises a vibration unit to generate a vibrating alert based on the generated alert signal.

2. The device (100) as claimed in claim 1, wherein the set of sensors (104) comprises a microphone coupled with a resonating device to enable sensing of the one or more signals in a frequency range of 10 Hz to 1 KHz, and wherein the resonating device comprises vibrating plates configured to enable sensing of frequencies less than 80 hertz and classifying one or more parameters pertaining to frequency and intensity of the sensed one or more signals.

3. The device (100) as claimed in claim 1, wherein the device (100) comprises an illumination unit (102) to illuminate the area in close proximity of the device (100).

FOR Chitkara Innovation Incubator Foundation

Tarun Khurana
Regd. Patent Agent [IN/PA-1325]
Dated: 14th July, 2019

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)	**Chitkara Innovation Incubator Foundation** of address **SCO: 160-161, Sector -9c, Madhya Marg, Chandigarh - 160009, India**.

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 **201911028234** Dated **14th July, 2019** are

2. INVENTOR (S)

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Dated this: 14th day of July, 2019

Signature :-

Name: Tarun Khurana (IN/PA-1325)

Khurana & Khurana, Advocates and IP Attorneys

3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT (S) IN THE CONVENTION COUNTRY:-

-NA-

To,

The Controller of Patent

The Patent Office, at Delhi

FORM – 26

THE PATENTS ACT, 1970
(39 of 1970)
&
THE PATENTS RULES, 2003
FORM FOR AUTHORISATION OF A PATENT AGENT/OR ANY PERSON
IN A MATTER OR PROCEEDING UNDER THE ACT
(See section 127 and 132; rule 135)

NOTARY * SHUBHRA SRIVASTAV Advocate G.B. Nagar * GOVT. OF INDIA

We, **Chitkara Innovation Incubator Foundation** having **Nationality of India** of address **SCO: 160-161, Sector -9C, Madhya Marg, Chandigarh- 160009, India,**

hereby authorize

Mr. Tarun Khurana, Regd. Patent Agent (INPA-1325);
Ms. Meenakshi, Regd. Patent Agent (INPA-1609)
Mr. Abhishek Pandurangi, Regd. Patent Agent (INPA-1722) and
Mr. Antony David, Regd. Patent Agent (INPA- 2066)
Mr. Tapan Shah, Regd. Patent Agent (INPA-2553)
Mr. Pradip Roy, Regd. Patent Agent (INPA-1468)
Ms. Mita Sheikh, Regd. Patent Agent (INPA-2194)

Khurana and Khurana, Advocates and IP Attorneys, E-13, UPSIDC, Site-IV, Behind-Grand Venice, Kasna Road, Greater Noida 201310, UP, National Capital Region, India

to act on my/our behalf and to appoint a substitute or substitutes as and when necessary in connection with the filing, prosecution and grant of patent application(s) and request that all notices, requisitions and communication relating there to may be sent to such person at the above address unless otherwise specified.

I/We hereby revoke all previous authorization, if any made, in respect of same matter or proceeding.

I/We hereby assent to the action already taken by the said person in the above matter.

Dated this 18th day of June, 2018

Signature.....

For Chitkara Innovation Incubator Foundation

Name: Chitkara Innovation Incubator Foundation

Director

To
The Controller of Patents
The Patent Office, At Delhi

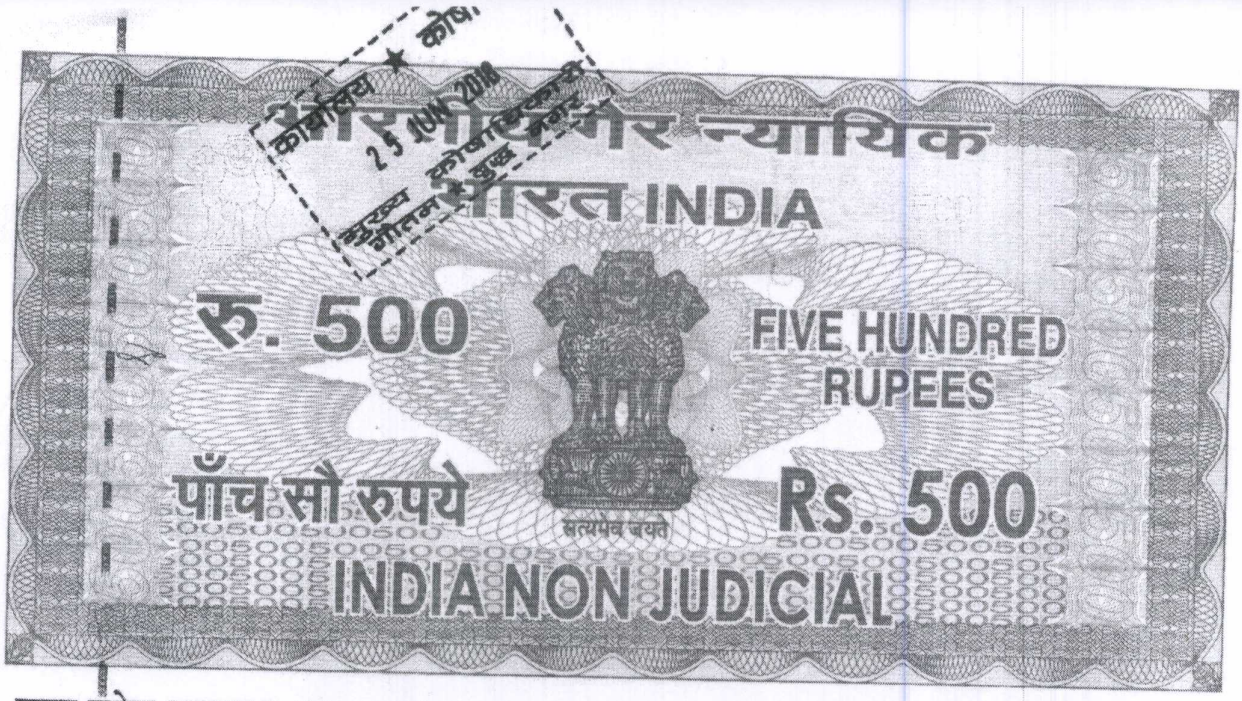
TARUN KHURANA
(INPA-1325)

Present Application No- 201911028234

Original Application No- 20182 1020150

True Copy Attested

SHUBHRA SRIVASTAV
Advocate (Notary)
Distt Gautam Budh Nagar



उत्तर प्रदेश UTTAR PRADESH

AB 437416

NOTARY SHUBHRA SRIVASTAV Regd. No. 5383 Distt. Gautam Budh Nagar GOVT. OF INDIA

STAMP DUTY FOR POWER OF ATTORNEY IN THE NAME OF

Chitkara Innovation Incubator Foundation
of the address
SCO:160-161, Sector -9C, Madhya Marg, Chandigarh- 160009, India.

GENERAL POWER OF ATTORNEY
THE PATENTS ACT, 1970
(39 of 1970)

FORM OF AUTHORISATION OF A PATENT AGENT OR ANY PERSON IN A MATTER OR PROCEEDING UNDER THE ACT

True Copy Attested

SHUBHRA SRIVASTAV
Advocate (Notary)
Distt Gautam Budh Nagar

TARUN KHURANA
(INPA-1325)

KHURANA & KHURANA
Advocates & IP Attorneys

2-5/C/18

SR no 37 ... DATE ...
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STAMP LNO 668 VALIDITY 31-3-19
DISTT. COURT G.B. NAGAR

NOTARY
SHUBHRA SRIVASTAV
Advocate
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GOVT. OF INDIA

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02 SEP 2022