

(12) PATENT APPLICATION PUBLICATION

(21) Application No.14/DEL/2010 A

(19) INDIA

(22) Date of filing of Application :04/01/2010

(43) Publication Date : 31/08/2012

(54) Title of the invention : Process for Crystal Modification of Hydrozinium Nitroformate

(51) International classification

:C06B

(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)The Director General Defence Research and Development Organisation

Address of Applicant :Ministry of Defence Govt of India
Room No. 348 B-Wing DRDO Bhawan Rajaji Marg New
Delhi:- 110 011 India Delhi India

(72)Name of Inventor :

1)Arun Kanti Sikder

2)Javaid Athar

3)Mrinal Ghosh

4)Amarjit Singh

5)Alapati Subhananda Rao

(57) Abstract :

The process for crystal modification of Hydraziniijm Nitroformate (HNF) to reduce the aspect ratio (L/D), and reduced sensitivity comprising the steps of: a) preparing modified crystals of HNF with controlled shape and size; b) preparing precured polyurethane based nano-composite for coating of said modified HNF; c) coating of the modified crystals with the polyurethane based nanocomposite based on polyols.

No. of Pages : 11 No. of Claims : 19