



- (51) **International Patent Classification:**  
*G01N 33/543* (2006.01) *C07K 1/14* (2006.01)  
*C07K 1/30* (2006.01)
- (21) **International Application Number:**  
PCT/IN2014/000589
- (22) **International Filing Date:**  
12 September 2014 (12.09.2014)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**  
301 1/MUM/2013 17 September 2013 (17.09.2013) IN
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- (81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

- *as to the identity of the inventor (Rule 4.1 7(i))*
- *as to applicant's entitlement to apply for and be granted a patent (Rule 4.1 7(H))*
- *of inventorship (Rule 4.1 7(iv))*

**Published:**

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*

(54) **Title:** METHOD FOR EXTRACTION OF BIOMOLECULES BY MAGNETIC PARTICLES

(57) **Abstract:** The present invention provides a method for extraction of biomolecules preferably protein by magnetic particles. Magnetic particle is preferably uncoated /bare magnetic particle. The present invention also provides a process for the extraction of protein by steps of addition of magnetic particle into biological system, application of external magnetic field, collection of protein-magnetic particle pellet, resolubilization and finalization of collecting solubilized protein and for drug extraction the step includes resuspension of the collected supernatant in mobile phase. The magnetic nanoparticle is synthetic analogues of any suitable magnetic material or combination of materials, such as magnetite, ulvospinel, hematite, ilmenite, maghemite, jacobsonite, trevorite, magnetite, pyrrhotite, greigite, troilite, goethite, lepidocrocite, ferrosilite, iron, nickel, cobalt, awaruite, wairauite, or any combination thereof. It is also being made up of transition metal such as iron, manganese, nickel, cobalt, zinc, etc. The magnetic nanoparticles are various sizes and shapes.

