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(71) **Applicant: EXACTMER LIMITED** [GB/GB]; Windsor House, Cornwall Road, Harrogate HG1 2PW (GB).

(72) **Inventors: GAFFNEY, Piers Robert James;** c/o Exactmer Limited, Windsor House, Cornwall Road, Harrogate Yorkshire HG1 2PW (GB). **LIVINGSTON, Andrew Guy;** c/o Exactmer Limited, Windsor House, Cornwall Road, Harrogate Yorkshire HG1 2PW (GB).

(74) **Agent: HGF LIMITED;** 1 City Walk, Leeds West Yorkshire LS11 9DX (GB).

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(54) **Title:** SOLUTION PHASE POLYMER SYNTHESIS

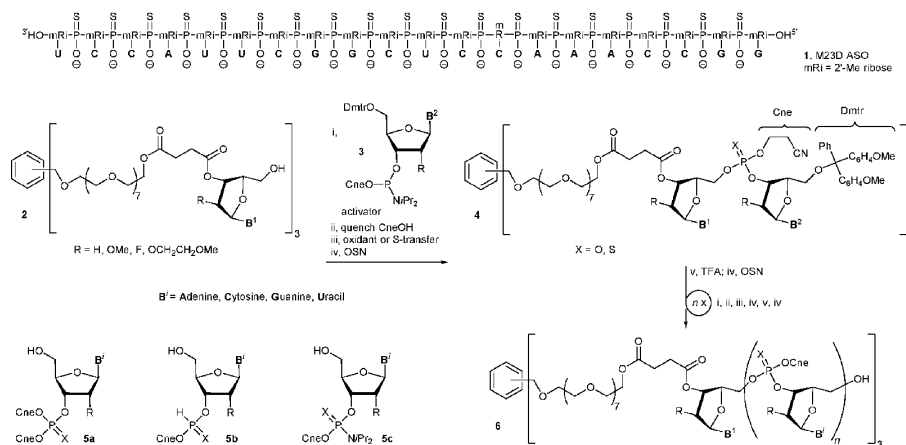


FIGURE 1

(57) **Abstract:** A membrane-assisted process for the preparation of defined monomer sequence polymers, including oligonucleotides and peptides, in solution phase is described. The growing defined monomer sequence polymer is attached to a soluble synthesis support having properties that allow the polymer to be straightforwardly prepared in certain industry-favoured solvents with improved membrane flux and reduced fouling.

[Continued on next page]

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