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ABSTRACT**MAGNETICALLY-ANNEALED NANOWIRES AND METHODS OF
FABRICATING THE SAME**

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A method comprising: providing a plurality of nanowires with an average diameter of 60nm or less and being arranged substantially parallel to each other along their longitudinal axis, annealing the nanowires, and applying a magnetic field that is aligned
10 with the longitudinal axis of the nanowires at least partially during annealing. Also a magnetic film comprising an array of magnetically-annealed nanowires having an average diameter of 60nm or less and being arranged substantially parallel to each other along their longitudinal axis.

15 Figure 3