

Title (en)  
SPIN TRANSFER OSCILLATOR

Title (de)  
SPINÜBERTRAGUNGSOSZILLATOR

Title (fr)  
OSCILLATEUR A TRANSFERT DE SPIN

Publication  
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Application  
**EP 11726745 A 20110609**

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Abstract (en)  
[origin: WO2011154477A1] The present invention relates to a spin transfer oscillator (30) comprising a magnetic stack (E) including at least two magnetic layers (32, 34), at least one of said two magnetic layers, referred to as the oscillating layer (32), has variable direction magnetization and a current supply means (31, 35) capable of causing the flow of a current of electrons perpendicularly to the plane of said magnetic stack (E). The magnetic stack (E) comprises means (33) capable of generating inhomogeneities of current at the level of the surface of said oscillating layer and the intensity of the current supplied by said supply means (31, 35) is selected such that the magnetization of said oscillating layer has a consistent magnetic configuration, said magnetic configuration oscillating as a whole at the same fundamental frequency.

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