

Title (en)  
CRACK-RESISTANT THERMAL BEND ACTUATOR

Title (de)  
RISSBESTÄNDIGER THERMISCHER BIEGEAKTUATOR

Title (fr)  
ACTIONNEUR À FLEXION THERMIQUE RÉSISTANT À LA FISSURATION

Publication  
**EP 2490896 B1 20160525 (EN)**

Application  
**EP 09848585 A 20090825**

Priority  
AU 2009001089 W 20090825

Abstract (en)  
[origin: WO2011022750A1] A thermal bend actuator comprises an active beam for connection to drive circuitry and a passive beam mechanically cooperating with the active beam. When a current is passed through the active beam, the active beam expands relative to the passive beam resulting in bending of the actuator. The passive beam comprises a first layer comprised of silicon nitride and a second layer comprised of silicon dioxide. The second layer is sandwiched between the first layer and the active beam to provide thermal insulation for the first layer.

IPC 8 full level  
**B41J 2/14** (2006.01)

CPC (source: EP)  
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