

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 A4 20140723 (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)

B41J 2/14427 (2013.01)

Citation (search report)

- [X] US 2005046672 A1 20050303 - CABAL ANTONIO [US], et al
- See references of WO 2011022750A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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