

Title (en)
REVERSE MECHANISM FOR A JET SYSTEM

Title (de)
UMKEHRMECHANISMUS FÜR EIN STRAHLSYSTEM

Title (fr)
MECANISME DE RENVERSEMENT DE MARCHE POUR SYSTEME A JET

Publication
EP 2250080 A1 20101117 (EN)

Application
EP 09707662 A 20090209

Priority
• US 2009033534 W 20090209
• US 2724008 P 20080208

Abstract (en)
[origin: US2009203270A1] A jet propulsion system includes an inlet receiving a fluid, and a housing defining a discharge nozzle through which fluid is discharged to provide propulsion of a vehicle in a first direction. The jet propulsion system also includes a reverse mechanism movable between a deployed position redirecting fluid from the discharge nozzle toward the first direction and providing propulsion of the vehicle in a second direction substantially opposite the first direction and a non-deployed position allowing fluid to exit the discharge nozzle and provide propulsion of the vehicle in the first direction. The reverse mechanism produces a flow entrainment that enhances forward thrust while the reverse mechanism is in the non-deployed position which results in a net thrust gain over the thrust attributed to the discharge nozzle alone.

IPC 8 full level
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CPC (source: EP US)
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