

Title (en)

Analog manipulator having privileged orientations.

Title (de)

Analogischer Manipulator mit privilegierten Richtungen.

Title (fr)

Manipulateur analogique à orientations privilégiées.

Publication

EP 0246968 A1 19871125 (FR)

Application

EP 87401126 A 19870520

Priority

FR 8607289 A 19860522

Abstract (en)

[origin: FR2599186A2] Manipulator delivering signals characteristic of the spacial orientation of an operating lever capable of being moved away, by transverse thrust, from a so-called neutral reference position, and returned elastically to this neutral position, this manipulator comprising a casing on which is articulated the said lever by way of a swivel stressed elastically towards a fixed span of the casing, this lever controlling the position of at least one movable member 3 associated with at least one sensor 4b to 4e for delivering an electrical signal dependent on the position of the lever. The movable influence member 3 comprises a blanked part stamped so as to engage and be immobilised in rotation on a projection carried by the swivel, this part having claws 3b, 3c, 3d, 3e distributed angularly around the lever and interacting with respective position sensors 4b, 4c, 4d, 4e. Application in particular to manipulators intended for the control of the displacements of a moving body. <IMAGE>

Abstract (fr)

Manipulateur délivrant des signaux caractéristiques de l'orientation dans l'espace d'un levier de manoeuvre (2) pouvant être écarté par poussée transversale d'une position de référence, dite neutre, et rappelé élastiquement vers cette position neutre, ce manipulateur comprenant un boîtier (1) sur lequel est articulé ledit levier (2) qui commande la position d'au moins un organe mobile (3) associé à au moins un capteur (4) pour délivrer un signal électrique fonction de la position du levier (2). Ce manipulateur comprend des moyens tels que des cames (7, 8) opposant au déplacement angulaire du levier de manoeuvre (2) une réaction élastique différenciée selon l'orientation du levier (2) par rapport à sa position neutre. Application notamment aux manipulateurs destinés à la commande des déplacements d'un mobile.

IPC 1-7

H01H 25/04

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

- [X] DE 7340888 U 19740221
- [A] DE 1268251 B 19680516 - SIEMENS AG
- [XP] DE 3442287 A1 19860522 - SWF AUTO ELECTRIC GMBH [DE]

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US5744765A; EP0656640A1; US5619021A; US5691517A; EP0562903A1; FR2689262A1

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