

Title (en)

Device for the detection of the position of punches in a sheet metal punching machine with several punches

Title (de)

Vorrichtung zur Erfassung der Stempelposition in einer Metallblech-Stanzmaschine mit mehreren Stempeln

Title (fr)

Dispositif pour détecter la position de poinçons dans une poinçonneuse pour tôle comprenant plusieurs poinçons

Publication

EP 1445041 A1 20040811 (EN)

Application

EP 04075318 A 20040203

Priority

IT MI20030217 A 20030207

Abstract (en)

A device for the detection of the position of punches (5) in a sheet metal punching machine with a plurality of punches is described. The device comprises a single position transducer (45) which is operatingly coupled to all the aforesaid pistons (10-13) in unidirectional way so as to follow the punching movement of any piston (10-13), while the other pistons (10-13) remain in rest position. <IMAGE>

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [A] US 5301585 A 19940412 - HOSAKA MAKOTO [JP]
- [A] WO 9626023 A1 19960829 - SAPIM AMADA SPA [IT], et al
- [A] EP 0538725 A1 19930428 - INST TECH PRECISION ENG [JP]

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DOCDB simple family (publication)

EP 1445041 A1 20040811; **EP 1445041 B1 20051019**; AT E306995 T1 20051115; DE 602004000132 D1 20060302;
DE 602004000132 T2 20060706; DK 1445041 T3 20060529; ES 2248782 T3 20060316; IT MI20030217 A1 20040808

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