

Title (en)  
HAND PLIERS WITH DETACHABLE JAWS.

Title (de)  
MANUELLE ZANGE MIT LÖSBAREN BACKEN.

Title (fr)  
PINCE MANUELLE A MACHOIRES AMOVIBLES.

Publication  
**EP 0009485 A1 19800416 (FR)**

Application  
**EP 79900099 A 19790828**

Priority  
FR 7802266 A 19780127

Abstract (en)  
[origin: WO7900555A1] Device allowing to form hand pliers which give the possibility to seize and hold between the jaws multiple elements such as screws, units, pins, small parts, etc. These pliers are made up with two levers (1 and 2), engaging one into the other and pivoting on an axis (4). A spring (6) between the handles (3) exerts a pressure on the jaws. This pressure allows to hold multiple elements between the jaws. Detachable jaws of different sizes and shapes can be locked onto the jaws of the pliers, thereby increasing considerably the possibilities of use of these pliers. These pliers used alone or with its detachable jaws have therefore the possibility to seize, hold, insert, separate, etc. elements such as screws, nuts, pins circlips, small parts used in mechanical engineering, electricity, electronics, etc.

Abstract (fr)  
Dispositif permettant de constituer une pince manuelle, celle-ci donne la possibilite de saisir et maintenir entre des machoires, de multiples elements: tels que vis-ecrous-pointes-petites pieces, etc. Cette pince est constituee de deux leviers (1 et 2), s'engageant l'un dans l'autre et pivotant sur un axe (4). Un ressort (6) entre les poignees (3) exerce une pression sur les machoires. Cette pression permet de maintenir entre les machoires divers elements. Des machoires amovibles de differentes dimensions ou formes ont la possibilite de venir se verrouiller sur les machoires de la pince, augmentant ainsi considerablement les possibilites d'utilisations de cette pince. Cette pince utilisee seule ou avec ses machoires amovibles a donc la possibilite de saisir-maintenir-inserer-ecarter etc... des elements tels que vis-ecrous-pointes-circlips-petites pieces servant pour mecanique, electricite, electronique, etc.

IPC 1-7  
**B25B 7/04**

IPC 8 full level  
**B25B 7/04** (2006.01)

CPC (source: EP)  
**B25B 7/04** (2013.01)

Designated contracting state (EPC)  
CH DE GB LU SE

DOCDB simple family (publication)  
**WO 7900555 A1 19790823**; DE 2964457 D1 19830217; EP 0009485 A1 19800416; EP 0009485 B1 19830112; FR 2415520 A1 19790824; FR 2415520 B1 19830415

DOCDB simple family (application)  
**FR 7900002 W 19790112**; DE 2964457 T 19790112; EP 79900099 A 19790828; FR 7802266 A 19780127