

Title (en)

Tweezers with grasping means mounted rotatably on the arms

Title (de)

Pinzette mit drehbar gelagerten Greifelemente

Title (fr)

Pince brucelles à éléments de préhension montés à pivotement sur des branches

Publication

EP 2177961 A1 20100421 (FR)

Application

EP 09171986 A 20091001

Priority

FR 0805735 A 20081016

Abstract (en)

The tweezers have a branch (1a) whose one end (2) is joined to an end of another branch (1b). A free end (3) of each branch has a removable gripping element (4) that is freely rotated around a swivel axis (A1) at the free end of the branch. The gripping element comprises a longitudinal axis (A3) perpendicular to the corresponding swivel axis. Each branch has a removable pad (5) that is fixed to a free end (6) of the gripping element, perpendicularly to the longitudinal axis of the gripping element, where the pad is in the form of parallelepiped bar. The pad is made of plastic material.

Abstract (fr)

La pince brucelles comporte deux branches (1a,1b) réunies à une première extrémité (2), une seconde extrémité (3) de chaque branche (1a,1b) comporte un élément de préhension (4). L'élément de préhension (4) de chaque branche (1a,1b) est monté à rotation libre autour d'un axe de pivotement (A1) à la seconde extrémité (3) de ladite branche (1a,1b). L'élément de préhension (4) de chaque branche (1a,1b) comporte un axe longitudinal perpendiculaire (A3) à l'axe de pivotement (A1) correspondant. Un patin (5) est fixé à une extrémité libre (6) dudit élément de préhension (4) perpendiculairement audit axe longitudinal (A3) de l'élément de préhension (4).

IPC 8 full level

G04D 1/02 (2006.01); **B25B 9/02** (2006.01)

CPC (source: EP US)

B25B 9/02 (2013.01 - EP US); **G04D 1/021** (2013.01 - EP US)

Citation (applicant)

- WO 9119291 A1 19911212 - I A F ENTERPRISES [US]
- GB 769917 A 19570313 - HUBERT PERCIVAL SCHOFIELD
- JP 2005342840 A 20051215 - KOYANAGI JUNICHI

Citation (search report)

- [A] WO 9119291 A1 19911212 - I A F ENTERPRISES [US]
- [A] GB 769917 A 19570313 - HUBERT PERCIVAL SCHOFIELD
- [A] JP 2005342840 A 20051215 - KOYANAGI JUNICHI
- [A] WO 2008114912 A1 20080925 - HAN JEONG SIK [KR], et al
- [A] US 2157226 A 19390509 - WILLIAM BETZ
- [A] US 3399583 A 19680903 - LANCE HALL GORDON

Cited by

JP2012200850A; CN104827417A; US10499771B2; CN104827419A; DE102020003693B4

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2177961 A1 20100421; **EP 2177961 B1 20110427**; AT E507510 T1 20110515; DE 602009001169 D1 20110609; FR 2937430 A1 20100423; FR 2937430 B1 20101231; US 2010096871 A1 20100422; US 7938469 B2 20110510

DOCDB simple family (application)

EP 09171986 A 20091001; AT 09171986 T 20091001; DE 602009001169 T 20091001; FR 0805735 A 20081016; US 58814809 A 20091006