

Title (en)  
PIPE WRENCH

Publication  
**EP 0180831 B1 19890517 (DE)**

Application  
**EP 85113244 A 19851018**

Priority  
US 66753884 A 19841102

Abstract (en)  
[origin: US4561330A] A wrench suitable for pipe work which includes a handle having two parallel arms, and a body pivotably mounted on the arms by means of a driving gear which passes through two holes provided on the arms, the holes are formed with internal teeth, a rack bar which includes a movable jaw at the forward end thereof and which has a portion slidably received in the body, wherein the driving gear is meshed with the teeth of the rack bar and which has the axis thereof transverse to the handle, when rotating the driving gear, the rack bar moves toward or away from a fixed jaw attached on the body, there are two sector pinions acting as the detent members mounted on the driving gear and operated cooperatively with internal teeth for permitting the uni-directional rotation of the driving gear with respect to the handle.

IPC 1-7  
**B25B 13/22; B25B 13/50**

IPC 8 full level  
**B25B 13/14** (2006.01); **B25B 13/22** (2006.01); **B25B 13/50** (2006.01)

CPC (source: EP US)  
**B25B 13/14** (2013.01 - EP US)

Cited by  
EP0385437A3

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**US 4561330 A 19851231**; AT E43086 T1 19890615; AU 4930985 A 19860508; AU 572770 B2 19880512; CA 1240539 A 19880816; DE 3570199 D1 19890622; DE 8514675 U1 19850829; EP 0180831 A1 19860514; EP 0180831 B1 19890517; ES 296158 U 19870816; ES 296158 Y 19880316; MX 161491 A 19901010; NZ 214030 A 19870331

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**US 66753884 A 19841102**; AT 85113244 T 19851018; AU 4930985 A 19851101; CA 487707 A 19850729; DE 3570199 T 19851018; DE 8514675 U 19850517; EP 85113244 A 19851018; ES 296158 U 19850930; MX 46885 A 19851031; NZ 21403085 A 19851031