

Title (en)  
Mechanical tube expander

Title (de)  
Mechanischer Rohrexpander

Title (fr)  
Dispositif d'évasement de tuyau mécanique

Publication  
**EP 1125654 A3 20011212 (DE)**

Application  
**EP 01250010 A 20010108**

Priority  
DE 10008688 A 20000218

Abstract (en)  
[origin: DE10008688C1] The mechanical pipe expander is a multi-edged pyramid with segments on the mantle surfaces, which are moved radially by an axial movement of the pyramid in relation to them. A lubricant cladding (5) is between the mantle surfaces of the pyramid (2) and the segments (3). The lubricant cladding (5) is a compound carbon fiber material with a polymer matrix containing graphite powder.  
[origin: DE10008688C1] The mechanical pipe expander is a multi-edged pyramid with segments on the mantle surfaces, which are moved radially by an axial movement of the pyramid in relation to them. A lubricant cladding (5) is between the mantle surfaces of the pyramid (2) and the segments (3). The lubricant cladding (5) is a compound carbon fiber material with a polymer matrix containing graphite powder.

IPC 1-7  
**B21D 39/20**

IPC 8 full level  
**B21D 3/14** (2006.01); **B21D 39/20** (2006.01)

CPC (source: EP US)  
**B21D 39/20** (2013.01 - EP US)

Citation (search report)

- [XY] US 4212186 A 19800715 - BLATTNER JOSEPH F [CA]
- [Y] US 5288792 A 19940222 - BUXBAUM LOTHAR [AT]
- [A] DE 3939356 A1 19910529 - MANNESMANN AG [DE]
- [A] DE 2924437 A1 19801218 - MANNESMANN AG

Cited by  
CN103447399A; DE10147848A1; DE102020213223A1; WO2022084113A1; EP3170571B1

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**DE 10008688 C1 20010208**; EP 1125654 A2 20010822; EP 1125654 A3 20011212; JP 2001259763 A 20010925; US 2001020381 A1 20010913

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