

Title (en)

IMPROVED EXPANDER FOR EXPANDING METAL PIPES

Title (de)

VERBESSERTER EXPANDER ZUM AUFWEITEN VON METALLROHREN

Title (fr)

EXPANSEUR AMÉLIORÉ POUR ÉLARGIR DES TUYAUX MÉTALLIQUES

Publication

**EP 3666412 B1 20210804 (EN)**

Application

**EP 19204024 A 20191018**

Priority

IT 201800010355 A 20181115

Abstract (en)

[origin: EP3666412A1] An improved expander for expanding metal pipes is described. The expander comprises a plurality of flexible rods (3), which are fed in parallel manner towards a corresponding plurality of parallel pipes (5) to axially insert respective expander mandrels (4) placed at the front end of the flexible rods (3) therein. The aforesaid flexible rods (3) are made in form of a harmonic steel stem with round section and smooth outer surface. (Fig. 2)

IPC 8 full level

**B21D 39/20** (2006.01); **B21D 41/02** (2006.01); **B21D 53/06** (2006.01); **B21D 53/08** (2006.01)

CPC (source: EP US)

**B21D 39/20** (2013.01 - EP); **B21D 41/026** (2013.01 - US); **B21D 53/085** (2013.01 - EP)

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3666412 A1 20200617**; **EP 3666412 B1 20210804**; CA 3059310 A1 20200515; IT 201800010355 A1 20200515; US 2020156138 A1 20200521

DOCDB simple family (application)

**EP 19204024 A 20191018**; CA 3059310 A 20191021; IT 201800010355 A 20181115; US 201916675390 A 20191106