Title (en)
Tool for extracting a tube from a tube sheet.

Title (de)
Werkzeug zum Herausziehen eines Rohrstückes aus einem Rohrboden.

Title (fr)
Outil pour extraire un tube d'une paroi tubulaire.

Publication
EP 0169471 A2 19860129 (DE)

Application
EP 85108838 A 19850715

Priority
DE 8422476 U 19840726

Abstract (en)
[origin: US4670975A] A tool for pulling heating tube sections from a tube sheet of a steam generator, includes a threaded pulling mandrel screwed to the heating tube section, a mounting plate fixed to the tube sheet, a hydraulic linear drive having a cylinder fastened to the mounting plate and a first lifting piston, a hydraulic clamping means having a cylinder surrounding the mandrel and being fastened to the first lifting piston, wedge-shaped clamping jaws having wide and narrow ends and being movable in longitudinal direction of the mandrel for engaging the clamping piston with the mandrel, and second and third hydraulic lifting pistons of the clamping piston, the second lifting piston resting against the narrow ends and the third lifting piston resting against the wide ends of the clamping jaws.

Abstract (de)
Das neue Werkzeug zum Herausziehen eines rohrstückes aus dem Rohrboden eines Dampferzeugers besteht aus einem in das Rohrstück einschraubbaren Ziehdorn (3) und einem diesen Ziehdorn umgebenden hydraulischen Linearantrieb (10), der sich fixierbar am Rohrboden abstützt. Am Hubkolben (12) des hydraulischen Antriebes ist der Zylinder eines hydraulischen Spannkolbens (20) befestigt, welcher den Ziehdorn umfaßt und mit diesem über Klemmbacken (26) im Eingriff steht.

IPC 1-7
B25B 27/02

IPC 8 full level
B23P 19/02 (2006.01); **B25B 27/02** (2006.01); **B25B 27/10** (2006.01)

CPC (source: EP US)
B25B 27/026 (2013.01 - EP US); Y10T 29/53113 (2015.01 - EP US); Y10T 29/5383 (2015.01 - EP US)

Cited by
DE4120351A1; DE4204657C1; US5291651A; EP3159112A3; DE102007043286A1; WO9316840A1

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

DOCDB simple family (publication)
EP 0169471 A2 19860129; **EP 0169471 A3 19860507**; **EP 0169471 B1 19900124**; DE 3575526 D1 19900301; DE 8422476 U1 19841031; JP H0457476 B2 19920911; JP S6133873 A 19860217; US 4670975 A 19870609

DOCDB simple family (application)
EP 85108838 A 19850715; DE 3575526 T 19850715; DE 8422476 U 19840726; JP 15999585 A 19850719; US 75762785 A 19850722