

Title (en)
Combination clamping chuck for a shaft furnace taphole piercing machine.

Title (de)
Universalspannfutter für eine Schachtofenabstichbohrmaschine.

Title (fr)
Mandrin universel pour une machine de perçage d'un trou de coulée d'un four à cuve.

Publication
EP 0573766 A1 19931215 (FR)

Application
EP 93106781 A 19930427

Priority
LU 88129 A 19920610

Abstract (en)
A combination chuck (32) is provided which makes it possible to transmit both a traction force to the end of a rod (48) and a torque (moment of rotation) to a drill (46) on a machine (10) for drilling a taphole. This combination chuck comprises a rotary body (34) mounted on the drive spindle (26) of a work member (18) which can slide on the drilling machine (10). A support structure (36) integral with the work member (18) forms a guide cage around the rotary body (34). Means for transmitting a traction force to the end of a rod (48) and a torque to a drill are arranged around a front cavity in the rotary body (34). <IMAGE>

IPC 1-7
C21B 7/12

IPC 8 full level
B23B 31/173 (2006.01); **B23B 31/12** (2006.01); **B23B 31/30** (2006.01); **C21B 7/12** (2006.01)

CPC (source: EP US)
C21B 7/12 (2013.01 - EP US); **Y10T 279/17042** (2015.01 - EP US); **Y10T 279/17085** (2015.01 - EP US); **Y10T 408/95** (2015.01 - EP US)

Citation (search report)
• [AD] FR 2621264 A1 19890407 - WURTH PAUL SA [LU]
• [AD] FR 2520857 A1 19830805 - WURTH PAUL SA [LU]
• [AD] EP 0405207 A2 19910102 - WURTH PAUL SA [LU]
• [A] EP 0025423 A1 19810318 - ATLAS COPCO FRANCE [FR], et al
• [A] US 3862750 A 19750128 - BROOM GILBERT R

Cited by
CN111215937A

Designated contracting state (EPC)
BE FR GB IT

DOCDB simple family (publication)
EP 0573766 A1 19931215; CA 2095464 A1 19931211; DE 4318571 A1 19931216; JP H0679506 A 19940322; LU 88129 A1 19940301; US 5348430 A 19940920

DOCDB simple family (application)
EP 93106781 A 19930427; CA 2095464 A 19930504; DE 4318571 A 19930604; JP 13781393 A 19930608; LU 88129 A 19920610; US 7635093 A 19930610