

Title (en)
Excavation equipment

Title (de)
Ausgrabungsanlage

Title (fr)
Equipement d'excavation

Publication
EP 0872596 B1 20031029 (EN)

Application
EP 98106388 A 19980408

Priority
IT TO970324 A 19970417

Abstract (en)
[origin: EP0872596A2] This invention relates to excavations for diaphragms, in particular to the type including : a hydraulic bucket (16), at least one wire line (21) to lift and lower the bucket (16) along a vertical excavation axis (x), a telescopic guide group (13 - 15) to guide the bucket along the excavation axis, and a rotation device (31) to rotate the bucket around the excavation axis. The rotation device (31) is interposed between the telescopic guide group (13 - 15) and the bucket (16) ; the wire line (21) is fixed to an element (15) arranged upstream of the rotation device (31). The equipment includes flexible conduits (19) for bucket activation and winding paddle wheels (20) to wind the conduits around a horizontal axis. The paddle wheels (20) are also mounted on a non rotating structural element (13) arranged upstream of the rotating device (31). <IMAGE>

IPC 1-7
E02D 17/13; **E02F 3/28**

IPC 8 full level
E02F 3/20 (2006.01); **E02F 3/413** (2006.01); **E02F 3/47** (2006.01); **E02D 17/06** (2006.01); **E02D 17/13** (2006.01); **E02F 3/36** (2006.01); **E02F 9/22** (2006.01)

CPC (source: EP)
E02F 3/3681 (2013.01); **E02F 3/4136** (2013.01); **E02F 3/475** (2013.01); **E02F 9/2275** (2013.01); **E02D 17/06** (2013.01); **E02D 17/13** (2013.01)

Citation (examination)
• EP 0718233 A2 19960626 - BAUER SPEZIALTIEFBAU [DE]
• JP S55152228 A 19801127 - YORITOMI RIYUUTAROU
• EP 0016736 B1 19830511
• DE 69204245 T2 19960321 - SOL COMP DU [FR]
• DE 4025823 A1 19920220 - KROEGER GMBH [DE]

Cited by
EP2589706A1; EP3569774A1; CN107178104A; EP2184403A1; FR2967426A1; ITTO20080815A1; FR2982284A1; EP1950353A1; US7685749B2; EP3569774B1

Designated contracting state (EPC)
BE DE ES FR GB IT

DOCDB simple family (publication)
EP 0872596 A2 19981021; **EP 0872596 A3 19990331**; **EP 0872596 B1 20031029**; **EP 0872596 B2 20070214**; DE 69819233 D1 20031204; DE 69819233 T2 20040422; DE 69819233 T3 20070823; ES 2210611 T3 20040701; ES 2210611 T5 20070816; IT 1293888 B1 19990311; IT TO970324 A1 19981017

DOCDB simple family (application)
EP 98106388 A 19980408; DE 69819233 T 19980408; ES 98106388 T 19980408; IT TO970324 A 19970417