

Title (en)
LIFTING CYLINDER UNIT

Publication
EP 0269905 B1 19920429 (DE)

Application
EP 87116374 A 19871106

Priority
US 93675786 A 19861202

Abstract (en)
[origin: EP0269905A2] The lifting cylinder unit consists of a cylinder (10) and a head part guided directly on it. The cylinder (10) has a longitudinal bore (18) in which a piston (20) slides which can be pressurized pneumatically or hydraulically on either side. The piston is connected to the head part via a piston rod (26). The cylinder and the head part are roughly the same length, the head part (12) being guided on the cylinder (10) like a slide on a bed. This results in a very compact type of construction. In order to further reduce the space requirement, the pressure connections (32, 36) are attached to the same end (14) of the cylinder (10). A passage (30) leads from one pressure connection (32) to the opposite end (16) of the cylinder (10). The passage (30) is formed by a longitudinal groove which is made in the longitudinal bore of the cylinder (10) and, except for an orifice (34), is closed off radially to the inside by a bush (28) which lines the longitudinal bore. <IMAGE>

IPC 1-7
B23Q 5/36; F15B 15/14

IPC 8 full level
F15B 15/14 (2006.01)

CPC (source: EP)
F15B 15/1471 (2013.01); **F15B 15/149** (2013.01)

Citation (examination)
• EP 0134398 A1 19850320 - TOSS FRANCO
• PATENT ABSTRACTS OF JAPAN Band 9, Nr.87(M-372)(1810),17.April 1985;

Cited by
CN102062131A; BE1011346A3; WO9113791A1

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