RTMP COPY + IPER

PCT WORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 : F15B 13/06 — A1

(11) International Publication Number: WO 97/33093

(43) International Publication Date: 12 September 1997 (12.09.97)

(21) International Application Number: PCT/SE97/00349

(22) International Filing Date: 28 February 1997 (28.02.97)

(30) Priority Data:
9600875-0 6 March 1996 (06.03.96) SE

(71) Applicant *(for all designated States except US)*: POS-LINE AB [SE/SE]; P.O. Box 88, S-960 24 Harads (SE).

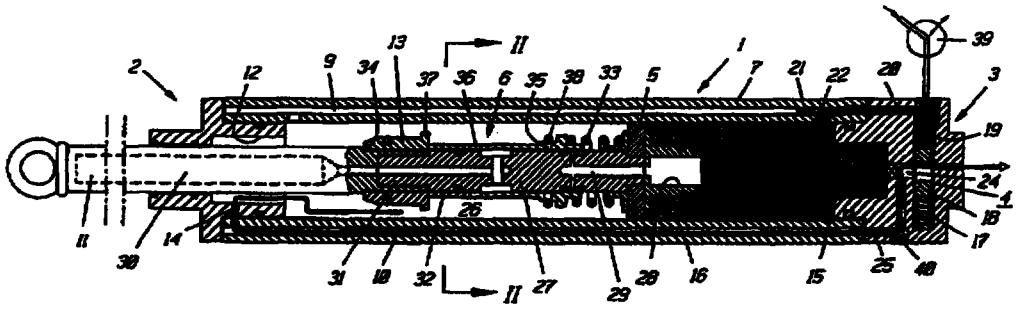
(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: HARJU, Bert [SE/SE]; Pos-Line AB, P.O. Box 88, S-960 24 Harads (SE).

(74) Agent: AVELLAN-HULTMAN, Olle; Avellan-Hultman Patentbyrå AB, P.O. Box 5366, S-120 49 Stockholm (SE).

(81) Designated States: AU, BR, CA, CN, JP, KR, SG, US, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.

(54) Title: SINGLE ACTING PNEUMATIC PISTON-CYLINDER UNIT



(57) Abstract

Pneumatic piston-cylinder apparatus of single acting type, which performs a working stroke in one working direction and which is returned to the initial position for the working stroke with any external supply of compressed air, and comprising a cylinder part having a cylinder jacket (1), a front end (2) and a rear end (3), and a piston (5) which is reciprocatable in the cylinder, and in which means (39) for supply of compressed air are connected only to the rear end (3), and in which the cylinder (1, 2, 3) is formed with means (10, 25, 4) for draining the air from the unloading side (26) of the piston (5) during the working stroke of the piston, and means (4, 9, 26, 29, 30) for building up a reserve supply of compressed air at the unloading side (26) of the piston (5) close to the end of the working stroke, which pressure is utilized for returning the piston to its initial position for working stroke.