

Title (en)
A MECHANIC-HYDRAULIC SYSTEM WITH A PRESSURE REGULATOR FOR MAINTAINING A CONSTANT TRACTIVE FORCE POWER OF A WINCH

Title (de)
MECHANISCH-HYDRAULISCHES SYSTEM MIT DRUCKREGLER ZUR AUFRECHTERHALTUNG EINER KONSTANTEN ZUGKRAFTLEISTUNG EINER WINDE

Title (fr)
SYSTÈME MÉCANICO-HYDRAULIQUE AVEC UN RÉGULATEUR DE PRESSION POUR MAINTENIR CONSTANTE LA PUISSANCE DE TRACTION D'UN TREUIL

Publication
EP 3093264 B1 20200610 (EN)

Application
EP 15203152 A 20151230

Priority
SI 201500123 A 20150509

Abstract (en)
[origin: EP3093264A1] A mechanic-hydraulic system with a pressure regulator for (21) maintaining a constant tractive force of a winch is disclosed whereby for each new layer of a towing rope on a winch drum (30) a pushing cylinder (33) is pushed away, wherein the cylinder rotates the axis of forks (34), which carry the pushing cylinder. Rotation of the forks' axis (34a) causes movement of a pole (36), which pushes a piston of a pressure regulator, consequently leading to an increase in oil pressure, which causes an increase of the cylinder piston pressure on couplings (15), resulting in an increase of the drum torque. The dimensions »e«, »f« and »g« of the forks and pole are adjustable and can be selected to maintain an almost constant tractive force of the winch.

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