

Title (en)  
DOUBLE CYLINDER UNIT.

Title (de)  
DOPPELZYLINDEREINHEIT.

Title (fr)  
UNITE DE CYLINDRE DOUBLE.

Publication  
**EP 0077837 A1 19830504 (EN)**

Application  
**EP 82901367 A 19820506**

Priority  
JP 6699981 A 19810506

Abstract (en)  
Double cylinder unit in which a rod-shaped piston rod (22) having first and second pressure bearing surfaces is laterally slidably provided in a single cylinder box (10) to impart an actuation to a driven unit, and a rod-shaped piston rod (34) having a third pressure bearing surface substantially equal to and opposing the second pressure bearing surface of the piston rod (22) and a fourth pressure bearing surface smaller than the area of the third pressure bearing surface is mounted on the piston rod of the second pressure bearing surface side of the piston rod (22), thereby controlling the hydraulic pressure acting on the first to fourth pressure bearing surfaces to provide a double action with the rods (22) around (34).

Abstract (fr)  
Unite de cylindre double dans laquelle une bielle de piston (22) en forme de tige possedant une premiere et une deuxieme surfaces de pression est montee de maniere coulissante lateralement dans une boite de cylindre simple (10) pour entrainer une unite entrainelee, et une bielle de piston (34) en forme de tige possedant une troisieme surface de pression sensiblement egale et opposee a la deuxieme surface de pression de la bielle (22) et une quatrieme surface de pression ayant une surface plus petite que celle de la troisieme surface de pression est montee sur la bielle du cote de la deuxieme surface de pression de la bielle (22), permettant ainsi de commander la pression hydraulique actionnant de la premiere a la quatrieme surfaces de pression pour fournir une action double avec les bielless (22 et 34).

IPC 1-7  
**F15B 15/24; F15B 15/14**

IPC 8 full level  
**F15B 11/12** (2006.01); **F15B 15/14** (2006.01); **F15B 15/24** (2006.01)

CPC (source: EP)  
**F15B 11/123** (2013.01); **F15B 15/24** (2013.01)

Cited by  
GB2242231A; EP1323929A1; EP3130810A4; DE3308928A1; EP1582759A1; US7370745B2

Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
**WO 8203896 A1 19821111**; EP 0077837 A1 19830504; EP 0077837 A4 19840706; JP S57184708 A 19821113; KR 830010321 A 19831230

DOCDB simple family (application)  
**JP 8200154 W 19820506**; EP 82901367 A 19820506; JP 6699981 A 19810506; KR 820001965 A 19820506