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(54) **Apparatus for increasing brake cylinder pressure by controlling pump motor and reducing the pressure by controlling electric energy applied to control valve**

Gerät mit Bremszylinderdruckerhöhung durch Ansteuerung des Pumpenmotors und Druckabbau mittels Steuerung der einem Steuerventil zugeführten elektrischen Energie

Dispositif d'augmentation de la pression dans les cylindres de frein par commande du moteur de la pompe et de diminution de la pression par le contrôle de l'énergie électrique alimentant une valve de commande

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(56) References cited:
EP-A- 0 469 978 **EP-A- 0 753 441**
WO-A-93/00236 **WO-A-96/28325**
WO-A-97/02970 **WO-A-97/23372**
DE-A- 4 029 793 **DE-A- 19 535 623**
GB-A- 1 282 800 **US-A- 4 477 125**
US-A- 5 152 585 **US-A- 5 295 737**
US-A- 5 727 852

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