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(54) **KNOCKING STATE DETERMINATION DEVICE**

VORRICHTUNG ZUR BESTIMMUNG DES KLOPFZUSTANDS

DISPOSITIF DE DETERMINATION D'UN ETAT DE COGNEMENT

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(56) References cited:
EP-A- 0 346 799 **US-A- 5 215 058**
US-A- 5 355 853 **US-A1- 2002 179 053**
US-A1- 2003 005 749 **US-B1- 6 845 312**

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