Abstract (en)

[origin: JPH01106980A] PURPOSE: To start a vacuum pump in an ensured way without using a pressure gage by starting a secondary pump
when the suction pressure of a primary pump as reduced by rotation of the primary pump reaches an acceptable value. CONSTITUTION: When
pump movement is to be started, a switch I is first turned on to start a primary pump A. A contactor 12 is closed and a motor M1 is rotated. At this
start time, a contactor 31 is closed. However, the closure of a contactor 13 is delayed. The time delay of the contactor 13 is designed such that the
contactor 13 is closed after the contactor 31 is opened. When the suction pressure of the pump A is reduced to a predetermined threshold value,
the absorbed power is reduced, the feed current is also reduced, and the excitation of a current relay 30 is stopped. The contactor 31 is closed and
current is fed to a coil 21 of a relay 20. As a contactor 22 is closed, a pump B is started.