

Title (en)

METHOD FOR STARTING VACUUM PUMPS CONNECTED IN SERIES, AND DEVICE FOR CARRYING OUT THE METHOD

Publication

EP 0308846 B1 19911016 (FR)

Application

EP 88115311 A 19880919

Priority

FR 8713267 A 19870925

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.

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Cited by

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