

POWER TRANSMISSION DEVICE

This patent relates to the vertical arrangement of the control valve as introduced in the product introduction “Introducing the Jatco CVT-XS (JF023E) for Nissan KICKS”.

1. POWER TRANSMISSION DEVICE

(Fig. 1)

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Title :POWER TRANSMISSION
DEVICE

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【SUMMARY OF THE INVENTION】

[Problem] To dispose of two pumps in a housing without increasing the size of a power transmission device in the rotational axis direction.

[Solution] A power transmission device for a vehicle, comprising a housing that houses a power transmission mechanism, a control valve that controls the hydraulic pressure supplied to the power transmission mechanism, and a mechanical pump and an electric pump that supply oil to the control valve. The housing has a first chamber that houses the power transmission mechanism and the mechanical pump, and a second chamber disposed adjacent to the first chamber in a horizontal line

direction. The mechanical pump is disposed in the first chamber such that the rotational axis of the mechanical pump is oriented along the rotational axis of the power transmission mechanism. The control valve is disposed vertically in the second chamber, and the electric pump is disposed vertically in the second chamber such that the rotational axis of the electric pump is oriented in an up-down direction.

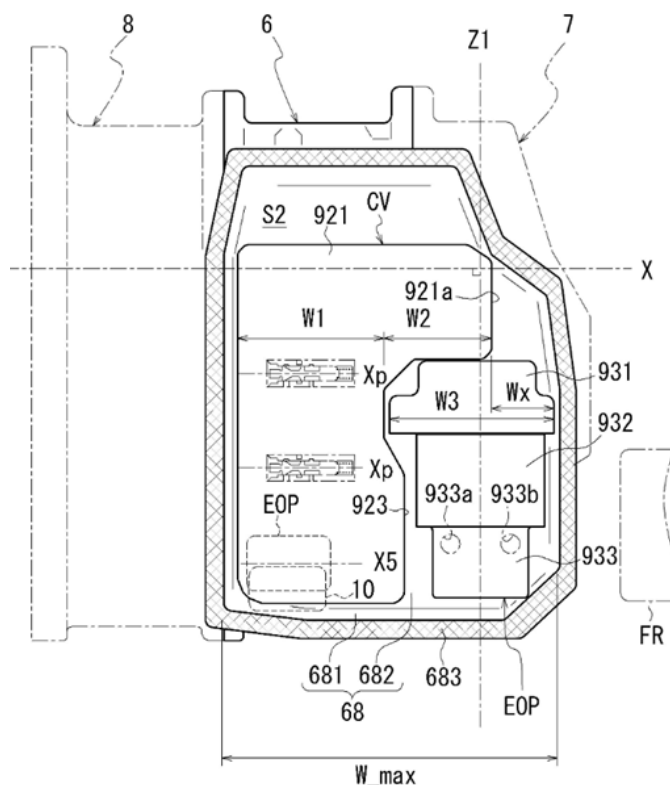


Fig. 1