[Abstract]

The object is to improve the NOx removal efficiency. A NOx removal device (10) includes: an ammonia injection device (11) provided in a duct (3) and having a plurality of jetting nozzles (11b), the duct internally forming an exhaust gas flow channel (9) configured to allow an exhaust gas to flow through, and the plurality of jetting nozzles being configured to inject an ammonia gas to an exhaust gas flowing through the exhaust gas flow channel (9); a NOx removal catalyst (13) provided in the duct (3) and downstream of the ammonia injection device (11); and a partition plate (16) provided between the ammonia injection device (11) and the NOx removal catalyst (13) and configured to partition the exhaust gas flow channel (9) into a plurality of divided flow channels (9a). In each of the plurality of divided flow channels (9a), the jetting nozzles (11b) are arranged at 8 jetting nozzles/m^2 or greater in a cross section orthogonal to a flow direction of the exhaust gas.