

## Title (en)

STEEL MATERIAL AND METHOD FOR PRODUCING SAME, AND TANK AND METHOD FOR PRODUCING SAME

## Title (de)

STAHLMATERIAL UND VERFAHREN ZUR HERSTELLUNG DAVON SOWIE TANK UND VERFAHREN ZUR HERSTELLUNG DAVON

## Title (fr)

MATÉRIAU D'ACIER ET SON PROCÉDÉ DE PRODUCTION, AINSI QUE RÉSERVOIR ET SON PROCÉDÉ DE PRODUCTION

## Publication

**EP 4249621 A4 20240605 (EN)**

## Application

**EP 22749560 A 20220125**

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## Abstract (en)

[origin: EP4249621A1] Provided are a steel material, a method for producing the steel material, a tank, and a method for producing the tank. A steel material of the present invention has a chemical composition containing, in mass%, C: 0.200% or more and 0.700% or less, Si: 0.05% or more and 1.00% or less, Mn: 20.0% or more and 40.0% or less, P: 0.030% or less, S: 0.0050% or less, Al: 5.00% or less, Cr: 7.0% or less, N: 0.0500% or less, O: 0.0050% or less, Ti: less than 0.005%, Nb: less than 0.005%, and one or two or more selected from Ca: 0.0100% or less, Mg: 0.0100% or less, and REM: 0.0200% or less, the balance being iron and incidental impurities, in which a microstructure has a maximum grain size of less than 200 µm at a position 1 mm below a surface of the steel material.

## IPC 8 full level

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## CPC (source: EP KR)

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