

Title (en)
STEAM TURBINE EQUIPMENT

Title (de)
DAMPFTURBINENGERÄT

Title (fr)
ENSEMBLE TURBINE À VAPEUR

Publication
EP 2180149 B1 20161221 (EN)

Application
EP 09806667 A 20090730

Priority
• JP 2009063909 W 20090730
• JP 2008207499 A 20080811

Abstract (en)
[origin: EP2180149A1] Provided is a steam turbine facility capable of suppressing the possibility of vibration occurrence and a drastic increase in facility cost, thereby realizing an increase in size of the facility, even if steam conditions of 650 °C or higher are adopted. In a steam turbine facility including a high-pressure turbine, an intermediate-pressure turbine, and a low-pressure turbine, the high-pressure turbine is separated into a first high-pressure turbine part on a high-temperature and high-pressure side and a second high-pressure turbine part on a low-temperature and low-pressure side, the intermediate-pressure turbine is separated into a first intermediate-pressure turbine part on the high-temperature and high-pressure side and a second intermediate-pressure turbine part on the low-temperature and low-temperature side, the first high-pressure turbine part and the first intermediate-pressure turbine part are integrated to form a first integrated part, the second high-pressure turbine part and the second intermediate-pressure turbine part are integrated to form a second integrated part, at least any one of the rotors and casings of the turbines into which steam with a temperature of 650 °C or higher is introduced are constructed by joining together a plurality of members formed from Ni-based alloy through welding.

IPC 8 full level
F01D 25/24 (2006.01); **F01D 5/06** (2006.01); **F01D 13/00** (2006.01); **F01D 25/00** (2006.01); **F01K 13/00** (2006.01)

CPC (source: EP US)
F01D 5/063 (2013.01 - EP US); **F01D 13/003** (2013.01 - EP US); **F01D 13/02** (2013.01 - EP US); **F01D 25/24** (2013.01 - EP US); **F01K 7/22** (2013.01 - EP US); **F05C 2201/0466** (2013.01 - EP US); **F05D 2220/31** (2013.01 - EP US)

Cited by
CN102705016A; EP2666977A1; US9194246B2; WO2017033028A1

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