

Title (en)
TURBINE SYSTEM WITH THREE TURBINES COUPLED TO A CENTRAL GEARBOX AND METHOD FOR OPERATING A WORK MACHINE

Title (de)
TURBINENSYSTEM MIT DREI AN EINEM ZENTRALEN GETRIEBE ANGEKOPPELTEN TURBINEN UND VERFAHREN ZUM BETREIBEN EINER ARBEITSMASCHINE

Title (fr)
SYSTÈME DE TURBINES COMPRENANT TROIS TURBINES COUPLÉES À UNE TRANSMISSION CENTRALE ET PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER UNE MACHINE DE TRAVAIL

Publication
EP 2805026 A1 20141126 (DE)

Application
EP 13710387 A 20130315

Priority
• DE 102012205159 A 20120329
• EP 2013055341 W 20130315

Abstract (en)
[origin: WO2013143877A1] The turbine system (110) has: (A) a first turbine (151), (B) a second turbine (152), (C) a third turbine (153), (D) a central gearbox (130) mechanically coupled on the input side to the three turbines and having a mechanical connection on the output side for connecting a work machine (120), (E) a first fluid line (161) for conveying a working fluid from the first turbine (151) to the second turbine (152), (F) a second fluid line (162) for conveying the working fluid from the second turbine (152) to the third turbine (153), (G) a first connecting unit (171) designed such that a first partial mass flow (171a) of the working fluid can be removed from the first fluid line (161) or supplied to the first fluid line (161), and (H) a second connecting unit (172) designed such that a second partial mass flow (172a) of the working fluid can be removed from the second fluid line (162) or supplied to the second fluid line (162). A turbine facility (100) with such a turbine system (110) and a method for operating a work machine (120) are also described.

IPC 8 full level
F01D 13/00 (2006.01); **F01D 13/02** (2006.01); **F01D 15/12** (2006.01)

CPC (source: EP RU US)
F01D 1/20 (2013.01 - US); **F01D 13/00** (2013.01 - RU); **F01D 13/003** (2013.01 - EP US); **F01D 13/02** (2013.01 - EP US); **F01D 15/12** (2013.01 - EP RU US); **F01K 7/04** (2013.01 - EP US); **F01K 7/34** (2013.01 - EP US); **F05D 2260/40** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102012205159 A1 20131002; BR 112014023698 A2 20170620; BR 112014023698 A8 20170725; CN 104204420 A 20141210; CN 104204420 B 20160824; EP 2805026 A1 20141126; EP 2805026 B1 20200610; IN 7393DEN2014 A 20150424; JP 2015514897 A 20150521; RU 2014143499 A 20160520; RU 2659848 C2 20180704; US 2015044021 A1 20150212; WO 2013143877 A1 20131003

DOCDB simple family (application)
DE 102012205159 A 20120329; BR 112014023698 A 20130315; CN 201380017725 A 20130315; EP 13710387 A 20130315; EP 2013055341 W 20130315; IN 7393DEN2014 A 20140903; JP 2015502196 A 20130315; RU 2014143499 A 20130315; US 201314386798 A 20130315