

Title (en)  
SCROLL COMPRESSOR AND AIR CONDITIONER HAVING THE SAME

Title (de)  
SCROLLVERDICHTER UND KLIMAAANLAGE DAMIT

Title (fr)  
COMPRESSEUR À SPIRALE ET CLIMATISEUR LE COMPRENANT

Publication  
**EP 3194783 B1 20210616 (EN)**

Application  
**EP 15875538 A 20151203**

Priority  
• KR 20140195251 A 20141231  
• KR 2015013112 W 20151203

Abstract (en)  
[origin: US2016186754A1] A scroll compressor includes a casing, a drive motor, an orbiting scroll, a fixed scroll engaged with the orbiting scroll, a back pressure chamber proximate to the orbiting scroll, an inlet pipe for supplying refrigerant to a compression chamber formed by the orbiting scroll and the fixed scroll, and a discharge pipe for discharging the refrigerant discharged from the compression chamber. The scroll compressor includes an oil feed passage configured to connect the back pressure chamber and an oil storage tank provided in the casing so that oil of the oil storage tank is supplied to the back pressure chamber; and a flow control valve disposed in the oil feed passage and configured to control an amount of oil to be supplied to the back pressure chamber via the oil feed passage according to a suction pressure, a discharge pressure, and a rotational velocity.

IPC 8 full level  
**F04C 28/24** (2006.01); **F04C 18/02** (2006.01); **F04C 23/00** (2006.01); **F04C 29/02** (2006.01)

CPC (source: CN EP KR US)  
**F04C 18/0215** (2013.01 - CN EP US); **F04C 23/008** (2013.01 - EP US); **F04C 28/24** (2013.01 - KR); **F04C 29/021** (2013.01 - CN EP US); **F04C 29/023** (2013.01 - EP US)

Cited by  
EP3988786A4

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)  
**US 2016186754 A1 20160630**; BR 112017009788 A2 20180130; CN 105736368 A 20160706; EP 3194783 A1 20170726; EP 3194783 A4 20170726; EP 3194783 B1 20210616; KR 20160081431 A 20160708; RU 2017122967 A 20190131; RU 2017122967 A3 20190131; WO 2016108444 A1 20160707

DOCDB simple family (application)  
**US 201514960723 A 20151207**; BR 112017009788 A 20151203; CN 201511021459 A 20151231; EP 15875538 A 20151203; KR 20140195251 A 20141231; KR 2015013112 W 20151203; RU 2017122967 A 20151203