advanced Solid Cycle with efficient Novel technologies

FP7 Grant Agreement 608512

WP7 –D7.4
Intellectual Property Register

The research leading to this results has received funding from the European Union Seventh Framework Programme FP7 under grant agreement n° 608512

DOCUMENT PROPERTIES

WP7 D7.4	
Associated work package	WP7
Document Editor	Brian Sweeney
Author(s)	Thomas Hills, Brian Sweeney (CALIX);
Short description	This document provides a list of ASCENT-relevant IP held by each partner organisation.
Dissemination level	Public via the ASCENT project website
Date	31.01.2018

DISTRIBUTION

This document is distributed to	
Internal	External
	General public via website

DOCUMENT LIFE CYCLE

Issue	Author	Date	Reason for change	Section impacted
1.0	Brian Sweeney	04.02.18	First Draft	All

Contents

Nomenclature - Abbreviations

CFC	Calix Flash Calcination
CSCM	Combined sorbent-catalyst material
CSTR	Continuously stirred tank reactor
FOAK	First-of-a-kind
HTC	Hydrotalcite
IP	Intellectual Property
RM	Raw material
rpm	Revolutions per minute
SER	Sorbent enhanced reforming
tpd	Tonnes per day
WP	Work Package
Wt%	Percent by weight

Executive summary

The ASCENT consortium recognises that, though significant performance improvements have been made in the technologies and their sorbents the TRLs of the technologies are still in the 4 to 5. Then the deliverable D7.4 which was previously devoted to the commercial agreements was modified to IP survey in 2017 among the project consortium which could exploited in case the ASCENT material and process will be uptake by the energy market.
This document reports a listing of the Intellectual Property consortium members brought to the ASCENT Project. It is the modified deliverable D7.4 which was changed from "Commercial Agreements Prepared" to "Intellectual Property Register" in response to the realisation that the technologies in the ASCENT scope were at TRL4

1. Introduction

1.1 Introduction

The consortium partners were advised by the examiners in the midterm review at Zaragoza to record the IP which they had brought to the project. This list is the record of IP.

2. INTELLECTUAL PROPERTY SURVEY AND LISTING

2.1 Background included

2.1.1 In the ASCENT Grant Agreement DOW page 36 it was agreed that <<At the time of the accession to the EC contract, the Coordinator will submit to all legal entities participating in this project a draft of a Consortium Agreement, coherent with general FP7 directives, to deal with matters like: (i) internal organisation of the consortium; (ii) distribution of the Community financial contribution; (iii) additional rules on dissemination and use of knowledge resulting from the project (foreground), intellectual property rights (IPR), exploitation of jointly owned results, access to pre-existing know-how (background), etc.; (iv) settlement of internal disputes.
The Coordinator will also take care of the whole procedure to conclude the agreement.>>

2.1.2 In the ASCENT Consortium Agreement Attachment 1 on page 38 was...

Attachment 1: Background included
Access Rights to Background made available to the Parties:

No background is specified at the time of signature of this Consortium Agreement.

2.1.3 When we met in Zaragoza in February 2017 we agreed that whilst it was not relevant to prepare commercial agreements for D7.4 there was value in a catalogue of IP ownership. WP7 agreed to do an IP conflict check by end February which is included in this document.

2.2 IP now held by beneficiaries relevant to the ASCENT project.

Describe IP held by the beneficiary
Beneficiary Number 2, ECN (Netherlands)
WO2010059055 – Water gas shift process – Description of a SEWGS process in the presence of H2S WO2013019116 – Regeneration of gas adsorbents – Description of a SEWGS process in which H2S and CO2 can be regenerated in different streams WO2013122467 – Water Gas Shift Process – Description of a SEGWS process in which the steam to CO ratio can be sub-stoichiometric WO2016075109 – Process for removing and recovering H2S from a gas stream by cyclic adsorption – Description of a process for separation H_2S and CO_2
Beneficiary 4, IFE (Norway)
WO 2011/005114 A1 Particulate, heterogeneous solid CO_2 absorbent composition, method for its preparation and use thereof
Beneficiary 7, CSIC (Madrid)
US2012230897 (A1) — 2012-09-13 - Method for Recovering CO2 By means of CaO and the exothermic reduction of a solid
Beneficiary 12, SINTEF
WO 20080044942 A1 Chemical Looping Combustion – on a rotating wheel chemical looping combustion process

Beneficiary 15, Calix Europe Limited
System and method for calcination/carbonation cycle processing, PCT/AU2006/001568 System and method of calcination of minerals, AU2007000424 System and method for processing flue gas, PCT/AU2009/00613 method and source for extracting carbon dioxide from an industrial source of flue gas at atmospheric pressure, PCT/AU2010/000921 system and method for processing an input fuel gas and stream to produce carbon dioxide and an output fuel gas, PCT/AU2010/001096 System and method of pyrolysis, Pending, 2017901522 Process and Apparatus for manufacture of hydroxide slurry, Pending, AU2014000979 Process and apparatus for manufacture of calcined compounds for the production of calcined products, PCT/AU2015/000684
Beneficiary 16. ZEG Power, Norway
US2006/0127714 A1 - Power generation apparatus

This represents the status at end 2017