

# SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

## Información de contacto

### Dirección: Principales:

- MARTA PATIÑO MARTINEZ

**marta.patino@upm.es**

- RICARDO JIMENEZ PERIS

**ricardo.jimenez.peris@upm.es**

## Tipo de oferta tecnológica

Patentes

## ¿Dónde?

Centro de I+D+i en Inteligencia Artificial (AI.nnovation Space) Laboratorio de sistemas distribuidos (LSD)

## Documentación

[Descargar documentación adicional \(jsp?id=646&id\\_archivo=6651&tipo=patente&extension=fichero \)](#)

## Descripción de la patente

A system and method for decentralized transaction processing that reduce contention by a number of techniques. First, the transactional management system is decomposed in a number of components that can be scaled out and/or scaled up independently and in a composable way. Second, transactions are committed in parallel without blocking each other. Third, applications can progress when the transactions updates are durable even if the writes of the transaction have not yet completed. Fourth, transactional consistency is guaranteed by making readable only gap-free prefixes of committed update transactions, without blocking the commit of new transactions. Fifth, session consistency is guaranteed by delaying the start of a new transaction till the snapshot of any previous update transaction in the same session is readable.

## Situación

Concedida

## Número de solicitud

US61/561,508

## Número de publicación

US9760597B2

## Fecha de presentación

18/11/2011

**Fecha de concesión**

12/09/2017

**Extensiones Internacionales**

**EUROPA**

**Referencia de la solicitud:** EP12788505.1

EP2780832B1

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING X

**Situación:** Concedida

**PAISES**

**País:** SUIZA

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** ALEMANIA

**Número de solicitud:** 602012019007

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** FRANCIA

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** IRLANDA

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** ITALIA

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** LUXEMBURGO

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** ESPAÑA

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada

**País:** EEUU

**Número de solicitud:** US14/908,892

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING X

**Situación:** Concedida

**País:** REINO UNIDO

**Título:** SYSTEM AND METHOD FOR HIGHLY SCALABLE DECENTRALIZED AND LOW CONTENTION TRANSACTIONAL PROCESSING

**Situación:** Presentada