

Title (en)  
CODE GENERATION AND TRACKING FOR AUTOMATIC DATA SYNCHRONIZATION IN A DATA MANAGEMENT SYSTEM

Title (de)  
CODEERZEUGUNG UND -VERFOLGUNG FÜR AUTOMATISCHE DATENSYNCHRONISATION IN EINEM DATENVERWALTUNGSSYSTEM

Title (fr)  
GÉNÉRATION ET SUIVI DE CODE POUR UNE SYNCHRONISATION DE DONNÉES AUTOMATIQUE DANS UN SYSTÈME DE GESTION DE DONNÉES

Publication  
**EP 4049177 A4 20231011 (EN)**

Application  
**EP 20878334 A 20201023**

Priority  

- US 201916664592 A 20191025
- US 201916664694 A 20191025
- US 2020057168 W 20201023

Abstract (en)  
[origin: WO2021081408A1] There are provided systems and methods for code generation and tracking for automatic data synchronization in a data management system. A user associated with an entity, such as an employee of an organization, may purchase an item utilizing a payment instrument or card provided by the organization. In order to provide proper expense allocation, the organization may require receipt matching and storage per use of the payment instrument. An expense management system may provide digital code generation and output on a corresponding physical or digital receipt so that when the receipt is provided to the expense management system, the codes may be matched to backend data stored by the system. The receipts may be processed by extracting text data from an image of a receipt to determine the codes. The codes may then be used to search a database of codes to match to digital transaction data.

IPC 8 full level  
**G06Q 20/40** (2012.01); **G06Q 30/04** (2012.01); **G06Q 30/06** (2023.01); **G06Q 40/02** (2023.01); **G06Q 40/12** (2023.01)

CPC (source: EP IL US)  
**G06Q 20/023** (2013.01 - EP IL); **G06Q 20/045** (2013.01 - EP IL); **G06Q 20/3276** (2013.01 - EP IL); **G06Q 20/385** (2013.01 - EP IL); **G06Q 20/4014** (2013.01 - EP IL); **G06Q 20/4015** (2020.05 - EP IL); **G06Q 20/4016** (2013.01 - EP IL); **G06Q 30/04** (2013.01 - EP IL); **G06Q 30/06** (2013.01 - EP IL US); **G06Q 40/12** (2013.01 - EP IL); **G06Q 40/125** (2013.12 - EP); **G06V 30/40** (2022.01 - EP IL US)

Citation (search report)  

- [X] US 10115083 B1 20181030 - KOEPEL ADAM [US]
- [I] US 2018047113 A1 20180215 - CHELST AZRIEL [US], et al
- [A] US 2018053259 A1 20180222 - BRAHMA RASHMI M [US]
- [A] US 10410191 B2 20190910 - CERIBELLI HENRIQUE PEDREIRA DE FREITAS [US], et al
- [A] US 2012084135 A1 20120405 - NISSAN DANIEL [CA], et al
- See also references of WO 2021081408A1

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)  
**WO 2021081408 A1 20210429**; AU 2020372489 A1 20220616; AU 2020372489 B2 20230608; BR 112022007726 A2 20220712; CA 3158558 A1 20210429; CN 114902298 A 20220812; EP 4049177 A1 20220831; EP 4049177 A4 20231011; IL 292476 A 20220601; JP 2023505007 A 20230208; JP 7466638 B2 20240412; MX 2022004922 A 20220808; ZA 202205666 B 20231129

DOCDB simple family (application)  
**US 2020057168 W 20201023**; AU 2020372489 A 20201023; BR 112022007726 A 20201023; CA 3158558 A 20201023; CN 202080090033 A 20201023; EP 20878334 A 20201023; IL 29247622 A 20220425; JP 2022524600 A 20201023; MX 2022004922 A 20201023; ZA 202205666 A 20220523