

Title (en)  
ELECTRIC LOAD-HAUL-DUMP MINING MACHINE

Title (de)  
ELEKTRISCHE LADE-TRANSPORT-ABSETZ-BERGBAUMASCHINE

Title (fr)  
MACHINE D'EXPLOITATION MINIÈRE À CHARGEMENT ET DÉCHARGEMENT DE CHARGES ÉLECTRIQUES

Publication  
**EP 3847314 A4 20221102 (EN)**

Application  
**EP 19857646 A 20190906**

Priority  
• US 201862727930 P 20180906  
• US 201916434390 A 20190607  
• US 2019050007 W 20190906

Abstract (en)  
[origin: WO2020051489A1] An electric vehicle may include a frame, a set of wheels, and a bucket. In addition, the vehicle may include an electric propulsion system comprising one or more electric motors and one or more electric power sources configured to deliver power to the one or more electric motors. Further, the vehicle may have a payload capacity, the payload capacity being a weight of material that can be loaded into the bucket and transported by the electric vehicle; and the payload capacity may be at least approximately 10 metric tons.

IPC 8 full level  
**E02F 9/20** (2006.01); **E02F 3/34** (2006.01); **E02F 3/342** (2006.01); **E02F 9/02** (2006.01); **E02F 9/08** (2006.01)

CPC (source: EP US)  
**E02F 3/3411** (2013.01 - EP); **E02F 9/0841** (2013.01 - EP); **E02F 9/0858** (2013.01 - EP); **E02F 9/18** (2013.01 - US); **E02F 9/207** (2013.01 - EP US); **E02F 9/2075** (2013.01 - EP)

Citation (search report)  
• [E] WO 2019168894 A1 20190906 - ARTISAN VEHICLE SYSTEMS INC [US]  
• [XYI] US 2012241229 A1 20120927 - NIVA KARL-ERIK [SE]  
• [Y] US 2007073465 A1 20070329 - BROWN BRYAN D [US], et al  
• [Y] US 2711257 A 19550621 - APEL JOHN H  
• [Y] US 2015071747 A1 20150312 - DEAHL PAUL [US], et al  
• [Y] WO 8301973 A1 19830609 - KIRUNA TRUCK AB [SE]  
• [A] ANONYMOUS: "Caterpillar launch the electric drive 988K XE | Agg-Net", 25 August 2017 (2017-08-25), XP055913781, Retrieved from the Internet <URL:https://www.agg-net.com/news/caterpillar-launch-the-electric-drive-988k-xe> [retrieved on 20220420]  
• See references of WO 2020051489A1

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 2020051489 A1 20200312**; AU 2019335037 A1 20210311; BR 112021003979 A2 20210525; CA 3108567 A1 20200312; CL 2021000541 A1 20210723; CN 112789382 A 20210511; EP 3847314 A1 20210714; EP 3847314 A4 20221102; MX 2021002599 A 20210512; PE 20210600 A1 20210323; US 2020157769 A1 20200521

DOCDB simple family (application)  
**US 2019050007 W 20190906**; AU 2019335037 A 20190906; BR 112021003979 A 20190906; CA 3108567 A 20190906; CL 2021000541 A 20210304; CN 201980056405 A 20190906; EP 19857646 A 20190906; MX 2021002599 A 20190906; PE 2021000212 A 20190906; US 201916434390 A 20190607