

Title (en)  
BLUE LASER METAL ADDITIVE MANUFACTURING SYSTEM

Title (de)  
GENERATIVES FERTIGUNGSSYSTEM FÜR METALL MIT BLAUEM LASER

Title (fr)  
SYSTÈME DE FABRICATION ADDITIVE DE MÉTAL AVEC UN LASER BLEU

Publication  
**EP 3840911 A4 20220601 (EN)**

Application  
**EP 19851630 A 20190824**

Priority

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- US 201862726233 P 20180901
- US 2019048049 W 20190824

Abstract (en)  
[origin: WO2020041786A2] A high-resolution additive manufacturing system based on a parallel printing method using a spatial light modulator. A method and system for additive manufacturing using a DMD in the laser beam path. The use of a pre-heat laser beam in combination with a build laser beam having a DMD along the build laser beam path.

IPC 8 full level  
**B23K 26/342** (2014.01); **B22F 10/28** (2021.01); **B22F 10/362** (2021.01); **B22F 10/364** (2021.01); **B22F 10/368** (2021.01); **B22F 10/85** (2021.01); **B22F 12/17** (2021.01); **B22F 12/20** (2021.01); **B22F 12/30** (2021.01); **B22F 12/42** (2021.01); **B22F 12/45** (2021.01); **B22F 12/47** (2021.01); **B22F 12/52** (2021.01); **B22F 12/90** (2021.01); **B23K 26/06** (2014.01); **B23K 26/064** (2014.01); **B23K 26/073** (2006.01); **B23K 26/08** (2014.01); **B23K 26/12** (2014.01); **B33Y 10/00** (2015.01); **B33Y 30/00** (2015.01)

CPC (source: CN EP KR US)  
**B22F 3/105** (2013.01 - KR); **B22F 3/24** (2013.01 - KR); **B22F 10/25** (2021.01 - CN); **B22F 10/28** (2021.01 - EP KR US); **B22F 10/30** (2021.01 - CN); **B22F 10/362** (2021.01 - EP US); **B22F 10/364** (2021.01 - EP US); **B22F 10/368** (2021.01 - EP US); **B22F 10/85** (2021.01 - EP US); **B22F 12/00** (2021.01 - CN); **B22F 12/13** (2021.01 - EP US); **B22F 12/17** (2021.01 - EP US); **B22F 12/20** (2021.01 - EP US); **B22F 12/30** (2021.01 - EP US); **B22F 12/41** (2021.01 - CN); **B22F 12/42** (2021.01 - EP US); **B22F 12/43** (2021.01 - KR); **B22F 12/45** (2021.01 - CN EP US); **B22F 12/47** (2021.01 - EP US); **B22F 12/52** (2021.01 - EP US); **B22F 12/60** (2021.01 - EP US); **B22F 12/70** (2021.01 - CN); **B22F 12/90** (2021.01 - CN EP US); **B23K 26/0608** (2013.01 - EP); **B23K 26/0853** (2013.01 - KR); **B23K 26/342** (2015.10 - EP KR); **B23K 26/702** (2015.10 - KR); **B29C 64/153** (2017.07 - EP); **B29C 64/245** (2017.07 - EP); **B29C 64/268** (2017.07 - EP); **B29C 64/295** (2017.07 - EP); **B29C 64/371** (2017.07 - EP); **B33Y 10/00** (2014.12 - EP); **B33Y 30/00** (2014.12 - CN EP US); **B33Y 40/00** (2014.12 - CN); **B22F 10/36** (2021.01 - EP US); **B22F 12/41** (2021.01 - EP US); **B22F 2999/00** (2013.01 - EP); **Y02P 10/25** (2015.11 - EP)

Citation (search report)

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**WO 2020041786 A2 20200227**; **WO 2020041786 A3 20200409**; CA 3110635 A1 20200227; CN 113226628 A 20210806; CN 113226628 B 20230620; CN 116638102 A 20230825; EP 3840911 A2 20210630; EP 3840911 A4 20220601; JP 2022500249 A 20220104; KR 102586306 B1 20231006; KR 20210056358 A 20210518; KR 20230142818 A 20231011

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**US 2019048049 W 20190824**; CA 3110635 A 20190824; CN 201980069449 A 20190824; CN 202310626593 A 20190824; EP 19851630 A 20190824; JP 2021510376 A 20190824; KR 20217008566 A 20190824; KR 20237033515 A 20190824