

Title (en)
MACHINE TOOL EQUIPPED WITH A QUICK COUPLING

Title (de)
WERKZEUGMASCHINE MIT SCHNELLKUPPLUNG

Title (fr)
MACHINE-OUTIL ÉQUIPÉE D'UN RACCORD RAPIDE

Publication
EP 4335976 A1 20240313 (EN)

Application
EP 23196078 A 20230907

Priority
NL 2032988 A 20220908

Abstract (en)
A machine tool has a movable lifting arm 1 and a tool 21 coupled thereto. The lifting arm 1 has two coupling forks 5 and two movable coupling pins 7 that are coupled to the tool 21. The lifting arm 1 further has first hydraulic coupling pieces 11. The tool 21 has two coupling bars 23 to which the coupling forks 5 are coupled, two coupling eyes 25 into which the coupling pins 7 are inserted, and second hydraulic coupling pieces 27 to which the first hydraulic coupling pieces 11 are coupled. The tool 21 further has two pins 29 and 31 that are connected to each other, of which one pin 29 is moved by one of the coupling pins 7 during insertion into the coupling eye 25 and the other pin 31 depresses a switch 15, which switches on moving means 17 that move the first hydraulic coupling pieces 11 so that they are coupled with the second hydraulic coupling pieces 27 on the tool 21.

IPC 8 full level
E02F 3/36 (2006.01)

CPC (source: EP)
E02F 3/3636 (2013.01); **E02F 3/3654** (2013.01); **E02F 3/3663** (2013.01)

Citation (search report)

- [A] US 6899509 B1 20050531 - MAILLEUX LOIC [FR]
- [A] US 6735929 B2 20040518 - WATTS BRADLEY JAMES [US], et al
- [A] US 10681866 B2 20200616 - SOLIMAR WALTER AIRTON [BR]
- [A] DE 10200836 A1 20030724 - SAUER THOMAS [DE]
- [A] US 2018171576 A1 20180621 - WEBB ADRIAN [GB], et al

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
EP 4335976 A1 20240313; NL 2035762 A 20240314

DOCDB simple family (application)
EP 23196078 A 20230907; NL 2035762 A 20230907