

Title (en)
MULTI-TUBE ONCE-THROUGH BOILER

Title (de)
MEHRROHR-DURCHLAUFKESSEL

Title (fr)
CHAUDIÈRE À CIRCULATION FORCÉE À TUBES MULTIPLES

Publication
EP 3940292 A4 20221116 (EN)

Application
EP 19919815 A 20190315

Priority
JP 2019010813 W 20190315

Abstract (en)
[origin: EP3940292A1] In a multi-tube once-through boiler, a structure is obtained in which recovered oil and waste solvent can be used as combustion gas for generating consumed steam and cleaning of water tubes can be performed easily. In a multi-tube once-through boiler configured such that boiler water within water tubes is heated and evaporated to take out consumed steam, a combustion chamber (9) has a horizontally extending cylindrical shape, each water tube has an arc shape arranged on left and right sides of the combustion chamber (9), rows of water tubes arranged on the left and right of the combustion chamber (9) are respectively connected by linear left and right upper headers (1) provided at upper ends and linear left and right lower headers (2) provided at lower ends, a lid body (door) (22) is formed on one end side facing the combustion chamber (9) and a burner (10) for supplying combustion gas to the combustion chamber (9) is provided, and the burner (10) is provided with a recovered oil supply unit for supplying recovered oil, a waste solvent supply unit for supplying a waste solvent, an injected air supply unit, a combustion air supply unit, and a control unit for controlling the supply of the recovered oil, the waste solvent, the injected air, and the combustion air.

IPC 8 full level
F22B 21/30 (2006.01); **F22B 21/22** (2006.01)

CPC (source: EP KR US)
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Citation (search report)

- [A] US 2008022947 A1 20080131 - ZORZIT VITTORIO [CA], et al
- [A] US 5353749 A 19941011 - SEIBEL ROBERT V [US], et al
- [A] US 6817319 B1 20041116 - MANAY ATILHAN [US]
- See also references of WO 2020188625A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
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