

Title (en)
LIQUID SAMPLE CAPTURE APPARATUS

Title (de)
VORRICHTUNG ZUR ERFASSUNG VON FLÜSSIGKEITSPROBEN

Title (fr)
APPAREIL DE PRÉLÈVEMENT D'ÉCHANTILLON DE LIQUIDE

Publication
EP 3903087 A4 20220914 (EN)

Application
EP 19905257 A 20191227

Priority
• US 201816233090 A 20181227
• US 2019068682 W 20191227

Abstract (en)
[origin: WO2020140003A1] The liquid sample capture apparatus captures a sample of a liquid and holds the sample for optical analysis. The apparatus may include a mount which is traversed by a sample conduit. The mount may have an elongated shape and two ferrules may be placed within the mount along the longitudinal axis of the mount. An end of each of the ferrules may extend into the sample conduit forming a narrowing of the sample conduit which holds the liquid and prevents it from escaping prior to analysis. The opposite ends of the ferrules may each be connected to an optical cable. The optical cables may be connected to an analytical device, for example, a spectrometer. The apparatus may be mounted within a toilet bowl where it may capture and analyze a urine sample.

IPC 8 full level
G01N 1/20 (2006.01); **G01N 21/01** (2006.01); **G01N 33/493** (2006.01)

CPC (source: EP)
G01N 21/0303 (2013.01); **G01N 21/27** (2013.01); **G01N 33/493** (2013.01); **G01N 21/0332** (2013.01); **G01N 2021/0193** (2013.01)

Citation (search report)
• [A] US 2015342575 A1 20151203 - HALL DAVID R [US], et al
• [A] US 2017135677 A1 20170518 - HALL DAVID R [US], et al
• [A] US 2018168556 A1 20180621 - HALL DAVID R [US], et al
• [A] US 2015342574 A1 20151203 - HALL DAVID R [US], et al
• [A] WO 9518373 A1 19950706 - TOTO LTD [JP], et al
• See references of WO 2020140003A1

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 2020140003 A1 20200702; CN 113677976 A 20211119; EP 3903087 A1 20211103; EP 3903087 A4 20220914

DOCDB simple family (application)
US 2019068682 W 20191227; CN 201980090432 A 20191227; EP 19905257 A 20191227