

Title (en)
SCREENING TOOL AND SCREENING DEVICE

Title (de)
SIEBWERKZEUG UND SIEBVORRICHTUNG

Title (fr)
OUTIL DE TAMISAGE ET DISPOSITIF DE TAMISAGE

Publication
EP 4000752 A1 20220525 (DE)

Application
EP 21162464 A 20210312

Priority
EP 20209093 A 20201120

Abstract (en)
[origin: WO2022106558A1] The screening tool (10) intended for handling a process material comprises at least one first screen lining, which is coupled to a metal coupling element (16) to which an ultrasonic transducer (2) is attached that is connected to an ultrasound generator (3) by means of electrical leads (32). The screening tool (10) comprises a metal working plate (11), which has a connection region (118) and at least one first transfer region (119) with first transfer openings (110), which first transfer region (119) forms the first screen lining by means of which particles of the process material that are larger than the transfer openings (110) can be separated from particles of the process material that are smaller than the transfer openings (110), and the coupling element (16) is a curved or straight rod having a first end piece (161) which is welded to the connection region (118), and a second end piece (162) which is mechanically connected to the ultrasonic transducer (2). The screening device (1) comprises a screening tool (10) of this kind and a control unit (8).

Abstract (de)
Das Siebwerkzeug (10) umfasst einen Siebbelag, der mit wenigstens einem Kopplungselement (16) verbunden ist, das über einen Ultraschallwandler (2) mit einem Ultraschallgenerator (3) verbindbar ist. Erfindungsgemäss ist eine mit einer Oberseite und einer Unterseite versehene metallene Arbeitsplatte (11) vorgesehen, die wenigstens einen Anschlussbereich (118), an dem das wenigstens eine Kopplungselement (16), das stabförmig ausgebildet und aus Metall gefertigt ist, angeschweisst ist, und die wenigstens einen Transferbereich (119) mit ersten Transferöffnungen (110) umfasst, der einen ersten Siebbelag bildet.

IPC 8 full level
B07B 1/42 (2006.01); **B07B 1/46** (2006.01)

CPC (source: EP US)
B07B 1/28 (2013.01 - US); **B07B 1/42** (2013.01 - EP); **B07B 1/4636** (2013.01 - EP); **B07B 1/4663** (2013.01 - US); **B07B 1/469** (2013.01 - US); **B07B 2201/02** (2013.01 - EP); **B07B 2230/04** (2013.01 - EP)

Citation (applicant)
WO 2018219840 A1 20181206 - A O IDEAS GMBH [CH]

Citation (search report)
• [XYI] JP 2011245446 A 20111208 - TOKYO SEIFUNKI SEISAKUSHO:KK, et al
• [YA] US 2012234735 A1 20120920 - ICHIKAWA HIDEO [JP], et al
• [YA] US 2315651 A 19430406 - PETERSON CLARENCE H
• [YA] US 2006043006 A1 20060302 - GARRETT DAVID A [GB], et al
• [YA] US 5226546 A 19930713 - JANSSENS EDUARD X J [BE], et al
• [I] DE 102015114076 B3 20160525 - ASSONIC MECHATRONICS GMBH [DE]
• [AD] WO 2018219840 A1 20181206 - A O IDEAS GMBH [CH]

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 4000752 A1 20220525; AU 2021382320 A1 20230622; EP 4247568 A1 20230927; JP 2023550456 A 20231201; US 11980916 B2 20240514; US 2023415199 A1 20231228; WO 2022106558 A1 20220527

DOCDB simple family (application)
EP 21162464 A 20210312; AU 2021382320 A 20211118; EP 2021082184 W 20211118; EP 21815483 A 20211118; JP 2023530516 A 20211118; US 202118036206 A 20211118