

Title (en)

DEVICE AND METHOD FOR RECOVERING MAGNETIC PARTICLES TRAPPED ON A MAGNETIC PLUG

Title (de)

VERFAHREN UND VORRICHTUNG ZUR RÜCKGEWINNUNG VON AUF EINEM MAGNETSTOPFEN GEFANGENEN MAGNETISCHEN PARTIKELN

Title (fr)

DISPOSITIF ET PROCEDE DE RECUPERATION DE PARTICULES MAGNETIQUES PIEGEES SUR UN BOUCHON MAGNETIQUE

Publication

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Application

**EP 10776619 A 20101022**

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Abstract (en)

[origin: WO2011051192A1] The invention relates to a device (100) for recovering magnetic particles (4) trapped on a magnetic plug (1). The magnetic plug (1) comprises a supporting end (2) and a magnetized element (3) for retaining the magnetic particles (4) in a liquid resulting from the wear of parts with which said liquid has been in contact. Said recovery device (100) includes magnetization means (106) and an enclosure (101) having an opening (102). Said enclosure (101) is capable of receiving the magnetic plug (1) via said opening (102) such that the magnetized element (3) is located inside said enclosure (101) and such that the supporting end (2) is located outside said enclosure (101). Said opening (102) is sized such that said supporting end (2) blocks said opening (102). The device (100) further comprises at least one injection nozzle (104) capable of injecting a gaseous fluid inside said enclosure (101), said nozzle (104) being oriented such that the flow of gaseous fluid expels the magnetic particles (4) retained on the magnetized element (3) toward the bottom of said enclosure (101). The magnetization means (106) are arranged so as to trap, by means of magnetization, the particles (4) urged toward the bottom of said enclosure (101).

IPC 8 full level

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