

Title (en)

IMPROVEMENTS IN OR RELATING TO THE SCOURING OF ELONGATE MATERIAL AND APPARATUS THEREFOR

Publication

EP 0050036 B1 19860305 (EN)

Application

EP 81304758 A 19811013

Priority

GB 8033065 A 19801014

Abstract (en)

[origin: EP0050036A1] Wire (50) is passed through apparatus (51) having two treatment zones. The first treatment zone contains six wire cleaning heads (15-20) and the second treatment zone contains two wire cleaning heads (13 & 14). Each cleaning head consists of a primary cylindrical chamber (72) flanked by two secondary cylindrical chambers (73) of substantially smaller diameter. The wire passes axially through the cylinders. A working fluid such as dilute alkali, water or an organic solvent is pumped into the primary cylindrical chamber via a tangentially aligned inlet (74). It circulates in the primary chamber (72) and leaves via the secondary chamber with a very high annular velocity due to the reduction in the diameter of circulation. The high circulation speed causes vibration in and around the wire in the secondary chambers with resultant abrasion of the surface of the wire. In an alternative embodiment up to all but one of the cleaning heads may be replaced by dies. Separate fluids are used in each treatment zone and prevented from mixing by a jet of high pressure air directed obliquely onto the wire to repel any flow of fluid along the wire. Similar jets prevent escape of fluid out of the ends of the apparatus.

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IPC 8 full level

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IPC 8 main group level

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CPC (source: EP)

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Cited by

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