

Title (en)

Centrifugal pump spiral with integrated two-sided header and coaxial air separator-filter wet well

Title (de)

Spiralgehäuse einer Kreiselpumpe mit integriertem zweiseitigen Kopf und Sickeinrichtung mit koaxialem Luftabscheiderfilter

Title (fr)

Boîtier hélicoïdal pour une pompe centrifuge avec en-tête à deux parties et de puisard filtrant avec séparateur d'air coaxial

Publication

EP 1245833 A1 20021002 (EN)

Application

EP 01130582 A 20011221

Priority

IT BO20010188 A 20010330

Abstract (en)

A single body A-B is provided forming the centrifugal pump spiral having in its lower part a hydraulic collector A which is expanding in the upper part, back to the spiral, in a coaxial air-separator filter wet well B. Said hydraulic collector A is formed by water input channelling with inlets (1a and 4a) with only one connection way and inlets (2a and 3a) to be reversible. The water from the different inlets coming in the collector A, goes to canalized to the wet well B in upper position with its inside space longitudinally divided by an air separator-filter (1b) and transversally by a separator element (2b). The mixture water/air inside the wet well B is divided such the water for induced intake from the centrifugal impeller C, crosses the filter (1b), arrives in the spiral through the conduit (3b) and goes out from the inlet/outlet conduit (4b) while the air comes to flow in the upper part (5b) with bigger volume to then goes out from the thermal relief (6b). <IMAGE>

IPC 1-7

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IPC 8 full level

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CPC (source: EP)

F04D 29/426 (2013.01); **F04D 29/708** (2013.01)

Citation (search report)

- [A] US 4676065 A 19870630 - EBERHARDT H ALFRED [US]
- [A] EP 0619070 A2 19941012 - HYDOR SRL [IT]
- [A] EP 0314659 A2 19890503 - KVAERNER EUREKA AS [NO]
- [A] US 3973871 A 19760810 - HANCE PIERRE G [BE]

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