

Title (en)
SEPARATOR FOR A WATER-STEAM SEPARATING DEVICE

Title (de)
ABSCHIEDER FÜR EINE WASSER-DAMPF-TRENNEINRICHTUNG

Title (fr)
SEPARATEUR DESTINE A UN DISPOSITIF SEPARATEUR D'EAU ET DE VAPEUR

Publication
EP 1105675 B1 20020612 (DE)

Application
EP 99952292 A 19990805

Priority

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- DE 19837250 A 19980817

Abstract (en)
[origin: US6408800B2] A separator separates water and steam. The separator has a steam-side outlet conduit, a water-side outlet conduit, and a separating chamber between a number of inlet conduits. A swirl breaker is upstream of the water-side outlet conduit. To achieve the lowest possible pressure loss with a simultaneously high medium throughput and an effective separating action, the length of the separating chamber is at least 5 times the internal diameter (DI) of the chamber. Furthermore, the ratio of the overall flow cross section of the inlet conduits to the square of the internal diameter of the separating chamber is between 0.2 and 0.3. Within a water/steam separating apparatus, the separator is connected to a water-collecting tank such that the top end of the latter is located beneath halfway along the length of the separator-calculated from the water-side, bottom end of the same.

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