

Title (en)

Moisture separation in turbine interstage steam flow.

Title (de)

Wasserabscheider für Turbinenzwischenstufendampffluss.

Title (fr)

Séparateur d'eau pour écoulement de vapeur inter-étage.

Publication

**EP 0520711 A1 19921230 (EN)**

Application

**EP 92305684 A 19920622**

Priority

US 71940391 A 19910624

Abstract (en)

Any moisture present in a steam flow outletting from a high pressure steam turbine and before that flow is passed to the inlet of a low pressure turbine, is removed by passing the flow through a high velocity separator [30], this separator being a type in which at entry thereto vanes [40] cause vortex-like swirling of the steam flow so that moisture therein is centrifuged against an inner wall surface [44] of a separator housing from thence being carried forward in flow direction to outlet from the housing via a skimmer slot [46] in the housing wall located intermediate the housing ends. The steam flow from which the moisture has been separated, passes to an outlet end of the housing [36] but before making its exit therefrom passes through straightening vanes [52] which reorient the flow from vortex-like swirling to longitudinal straight line course thereof. <IMAGE>

IPC 1-7

**F01K 7/22**; **F22B 37/32**

IPC 8 full level

**B01D 45/12** (2006.01); **F01D 25/00** (2006.01); **F01K 7/16** (2006.01); **F01K 7/22** (2006.01); **F22B 37/32** (2006.01)

CPC (source: EP)

**F01K 7/223** (2013.01); **F22B 37/32** (2013.01)

Citation (search report)

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