

## Title (en)

FIBER BUNDLE WITH PIECED PART, PROCESS FOR PRODUCING SAME, AND PROCESS FOR PRODUCING CARBON FIBER

## Title (de)

FASERBÜNDEL MIT ABGETEILTEM TEIL, VERFAHREN ZU SEINER HERSTELLUNG UND VERFAHREN ZUR HERSTELLUNG EINER CARBONFASER

## Title (fr)

FAISCEAU DE FIBRES COMPORTANT UNE PARTIE RÉUNIE, PROCÉDÉ DE PRODUCTION DE CELUI-CI ET PROCÉDÉ DE PRODUCTION DE FIBRE DE CARBONE

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## Application

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## Abstract (en)

[origin: EP2348143A1] A fiber bundle which has a pieced part formed by jetting a pressurized fluid against a fiber-bundle overlap formed either by directly superposing the ending part of a fiber bundle composed of many fibers on the beginning part of another fiber bundle composed of many fibers or by superposing the end part and the beginning part on a jointing fiber bundle composed of many fibers, whereby the many fibers of the fiber bundles are interlaced with one another to thereby piece up the fiber bundles. The pieced part comprises an opened-fiber part in which the fibers have been opened and interlaced-fiber parts respectively located on both sides thereof, each interlaced-fiber part being composed of a plurality of constituent interlaced parts located apart in the width direction for the fiber bundle. The fiber bundle having the pieced part, when fed to a process for producing a carbon fiber, is inhibited from suffering thermal damage to the pieced part, because the pieced part comprises the opened-fiber part and the interlaced-fiber parts.

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- [X] EP 0909842 A1 19990421 - TORAY INDUSTRIES [JP]
- [A] EP 1420091 A1 20040519 - MITSUBISHI RAYON CO [JP]
- [A] US 4466949 A 19840821 - MORI YUKIYOSHI [JP]
- [AD] JP 2007046177 A 20070222 - TOHO TENAX CO LTD
- [A] JP 2000026026 A 20000125 - TORAY INDUSTRIES
- [A] JP 2008094539 A 20080424 - MITSUBISHI RAYON CO
- See references of WO 2010053170A1

## Cited by

EP4129878A4; EP3031763A1; RU2629091C2; EP2878716A4; CN108603309A; EP3412803A4; US9528199B2; US9738994B2; WO2013124177A1; US10988862B2

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