

A PRECURSOR FIBER BUNDLE FOR PRODUCTION OF A CARBON FIBER
BUNDLE, A PROCESS FOR PRODUCING THEREOF, A CARBON FIBER
BUNDLE, AND A PROCESS FOR PRODUCING THEREOF

Abstract of the Disclosure

This invention relates to a precursor fiber bundle for production of a carbon fiber bundle, a process for producing the precursor fiber bundle, a carbon fiber bundle produced with the precursor fiber bundle, and a process for producing the carbon fiber bundle.

A precursor fiber bundle according to the invention has a fineness being in the range of from 300,000 denier to 1,500,000 denier and has a potential dividability to sub-tows each of which has a fineness being in the range of from 50,000 denier to 250,000 denier.

The precursor fiber bundle is obtained by dividing a multifilament spun from a spinnerette into a plurality of sub-tows, drawing the sub-tows in this state, and after that converging the sub-tows into one tow with overlapping adjacent sub-tows at a side edge portion thereof. The converging is practiced typically by passing the overlapped sub-tows through a crimping apparatus.

A carbon fiber bundle according to the invention is produced by dividing the precursor fiber bundle into the sub-tows and after that treating the sub-tows by passing thereof



through stabilizing and carbonizing processes.

Figure 2

THIS SHEET HAS BEEN
REPLACED

This Sheet Has Been Replaced

