

Title (en)
METHOD FOR PRODUCING A CROSSLINKED LIGNIN WITH A HIGHLY SPECIFIED SURFACE AREA, CROSSLINKED LIGNIN, AND TECHNICAL RUBBER ARTICLES OR TIRES COMPRISING CROSSLINKED LIGNIN

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES VERNETZTEN LIGNINS MIT HOHER SPEZIFISCHER OBERFLÄCHE, VERNETZTES LIGNIN UND TECHNISCHE GUMMIARTIKEL ODER REIFEN UMFASSEND VERNETZTES LIGNIN

Title (fr)
PROCÉDÉ DE PRÉPARATION D'UNE LIGNINE RÉTICULÉE À SURFACE SPÉCIFIQUE ÉLEVÉE, LIGNINE RÉTICULÉE ET ARTICLES EN CAOUTCHOUC OU PNEUMATIQUE COMPRENANT DE LA LIGNINE RÉTICULÉE

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Abstract (en)
[origin: WO2022008008A1] The invention relates to a method for producing a crosslinked lignin in particle form using a hydrothermal treatment of a liquid, which is made of black liquor, contains lignin and a crosslinker or a precursor thereof, and has an electrical activity ranging from more than 15 mS/cm, preferably more than 25 mS/cm, to 400 mS/cm, and to the crosslinked lignin produced using the aforementioned method. The invention additionally relates to crosslinked lignin particles which have a glass transition temperature T_g of at least 160 °C or no glass transition temperature and an STSA surface area of at least 10 m²/g and to rubber articles, in particular technical rubber articles or tires, which comprise crosslinked lignin particles as a filler.

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