

ABSTRACT

A filter cloth comprising at least a base layer and a filtering layer, characterized in that the ratio T/L of the thickness (T) of the filtering layer to the length (L) of fibers of fiber bundles constituting the filtering layer is 0.02 to 0.7 and the sum of a projected area of the fibers onto the base layer surface is 8 to 350 times the area of the base layer surface and, a filter cloth characterized in being constituted with at least a base layer and a filtering layer mainly composed of fiber bundles of crimped fiber ratio over 5%. Again, a belt type solid-liquid separating machine characterized in being constituted with at least a mechanism in which the filter cloth of this invention is provided on a plurality of rollers and is moved therearound, a mechanism for supplying unfiltered water onto an inclined belt, a mechanism for sucking supplied unfiltered water from the rear surface of the belt, a mechanism for dewatering a cake formed on the belt by pressurizing the same, a mechanism for peeling off the dewatered cake and a mechanism for washing the belt. In addition, a filtering machine characterized in being constituted with at least a mechanism for partitioning inside and outside portions by providing the filter cloth of this invention around a drum or a disc-like structural member, a mechanism for passing water through the filter cloth by supplying unfiltered water to the partitioned outside or inside portion, a mechanism for washing the filter cloth from the unfiltered water supply side and/or the other side and a mechanism for discharging concentrated water produced by the washing.