Method for lining existing pipe on inside and inner lining pipe

Background of the invention

The invention relates to a method for lining an existing pipe on the inside. The invention also relates to an inner lining pipe intended for application inside an existing pipe.

Damaged or leaking sewage pipes can be repaired by arranging a flattened and folded plastic pipe inside the existing sewage pipe. The plastic pipe that has been flattened and folded is made round by using heat and internal pressure inside the sewage pipe. This type of solution is disclosed in publications EP 0593564 and DE 3519439, for instance. However, there is a need to provide an even more versatile solution for lining the inside of an existing pipe.

Publication US 4867921 also discloses a solution, in which a flattened and folded plastic pipe is arranged inside a sewage pipe and said plastic pipe is then expanded to a round shape inside the sewage pipe. In this solution, the sewage pipe is formed in the flattened and folded shape, which means that making it round requires a high internal pressure. Further, in view of this solution, too, there is a need to provide a more versatile inner lining solution of a pipe.

Brief description of the invention

~~It is an object of the present invention~~Various embodiments seek to provide a novel solution for lining an existing pipe on the inside.

The method ~~of the invention~~ is characterised by forming an inner lining pipe mainly of polyvinyl chloride, the pipe having a certain original outer dimension that is smaller than the inner circumference of the existing pipe to be lined, placing the inner lining pipe inside the pipe to be lined and expanding the inner lining pipe in such a manner that its original outer dimension becomes larger by causing a radial orientation in the wall material of the inner lining pipe.

Further, the inner lining pipe of the invention is characterised in that the inner lining pipe has an original outer dimension that is smaller than the inner circumference of the existing pipe to be lined, whereby the inner lining pipe is expandable from its original outer dimension to have a larger outer dimen-