Title of the Invention: Process and plant for the formal treatment of fine-grained solids

Abstract Title: Process and plant for the formal treatment of fine-grained solids

This invention relates to a process for the chemical and/or physical treatment of fluidizable substances in a reactor (1, 1'), wherein fuel and combustion air preferably are supplied to a combustion chamber (4) upstream of the reactor and burnt at a temperature of about 1000°C to about 1500°C. The hot gas is introduced into the reactor interior (2) via a central tube (3). The hot gas and the central tube (3) are cooled with a coolant. Furthermore, this invention relates to a plant for performing such process.