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专利名称(译)	范围加热装置		
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摘要(译)

一种加热装置(30),用于将诸如腹腔镜的光学仪器(1)的镜片部分(2)加热到高于环境温度以防止镜片起雾,包括:具有内壁的双壁圆柱形管(3)(3b),外壁(3a),上表面和开口远端部分(7),其间具有中心腔(4);突起(9),从所述上表面延伸,其尺寸和形状设计成容纳透镜部分;圆形帽(5),其尺寸适于连接到所述双壁圆柱形管的所述远端部分;加热元件(15)封闭在所述中心腔内并热耦合到所述绝缘层。