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本国际公布:

— 包括国际检索报告 (条约第 21 条 (3))。

(54) Title: EVACUATION LADDER FOR TRANSPORTING HOSPITAL BED

(54) 发明名称: 病床输送的避难梯

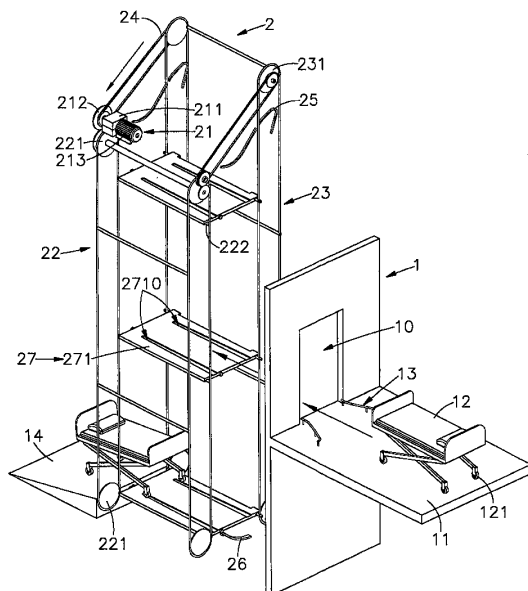


图 1

(57) Abstract: An evacuation ladder (2) for transporting a hospital bed (12), which is installed in a building (1). Floor guide rails (13) that lead the hospital bed (12) to an entrance of the evacuation ladder (2) is provided on a floor (11) of the building (1), a preset body is provided in the evacuation ladder (2), and a preset loading space is provided within the top portion of the preset body, which comprises: a gravity deceleration device (21) is provided with a decelerator (211) and a transmission shaft (211) which extends therefrom, and the transmission shaft (211) also penetrates into driving wheels (212). Upper and lower ends in the interior of two first endless chains (22) each mesh with a first gear (221), and the first gears (221) are meshingly linked with the driving wheels (212). Upper and lower ends in the interior of two second endless chains (23) each mesh with a second gear (231), and the second gears (231) are linked with each driving wheel (212) by means of a transmission chain (24). Two first guide rails (25) and two second guide rails (26) are provided at upper and lower end positions between the first endless chains (22) and the second endless chains (23), respectively. A bearing surface (271) is provided above a plurality of carriers (27), and two guide grooves (2710) for guiding and positioning four casters (121) of the hospital bed (12) are provided on the bearing surface (271). Two sides of the plurality of

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carriers (27) are each provided with a shaft rod (272), a roller (273) and a fastener claw (274), and two shaft rods (272) are penetratingly fastened to a preset fastener holes of the second endless chains (23). The two rollers (273) of each carrier (27) abut against the two first guide rails (25), so that the two fastener claws (274) are hooked in hanging rods (222) of the two first endless chains (22) for positioning. The two rollers (273) of each carrier (27) abut against the second guide rails (26) so that the two fastener claws (274) are separated from the hanging rods (222) of the first endless chains (22), and the two shaft rods (272) are flipped and lift with the two second endless chains (23). The purpose of quickly pushing the hospital bed (12) into the evacuation ladder (2) to make an escape is achieved by means of the foregoing structure.

**(57) 摘要:** 一种病床 (12) 输送的避难梯 (2), 装设于一建筑物 (1) 中, 于该建筑物 (1) 的一楼层地板 (11) 上设有供一病床 (12) 通往一避难梯 (2) 入口的一楼层导轨 (13), 该避难梯 (2) 中设有一预设本体, 于该预设本体顶部内设有一预设装载空间, 包括: 一重力减速装置 (21) 设有一减速机 (211) 且延伸有一传动轴 (2111), 该传动轴 (2111) 更穿设于一主动轮 (212) 中; 二第一循环链条 (22) 内部上、下端各啮合有一第一齿轮 (221), 该第一齿轮 (221) 与该主动轮 (212) 做一啮合连动; 二第二循环链条 (23) 内部上、下端各啮合有一第二齿轮 (231), 该第二齿轮 (231) 经由一传动链条 (24) 与该主动轮 (212) 做一连动; 于该第一循环链条 (22) 与该第二循环链条 (23) 之间的上、下端位置各有二第一导轨 (25) 及二第二导轨 (26); 多个载座 (27) 上方具有一承载面 (271) 且该承载面 (271) 上设有供该病床 (12) 的四脚轮 (121) 做一导引定位的二导槽 (2710), 且多个载座 (27) 二侧各具有一轴杆 (272)、一滚轮 (273) 及一扣爪 (274), 该二轴杆 (272) 穿固于该第二循环链条 (23) 的一预设扣孔中, 该载座 (27) 的该二滚轮 (273) 抵持于该二第一导轨 (25) 上以使该二扣爪 (274) 勾持于该二第一循环链条 (22) 的一挂杆 (222) 中做一定位; 而该载座 (27) 的该二滚轮 (273) 抵持于该第二导轨 (26) 上以使该二扣爪 (274) 脱离该第一循环链条 (22) 的该挂杆 (222), 且通过该二轴杆 (272) 随该第二循环链条 (23) 翻转上升, 通过前述构成以达到病床 (12) 快速推入避难梯 (2) 中进行逃生的目的。