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(54) Title: MECHANICAL RESPIRATORY REGULATION UNIT

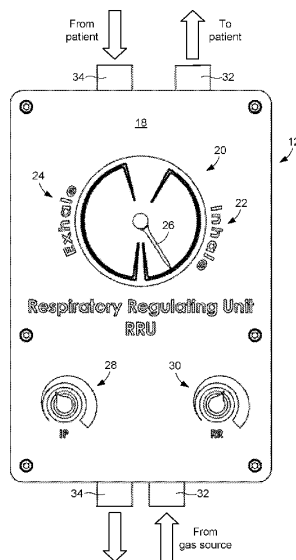


FIG. 1

(57) Abstract: A respiratory regulation unit includes a case having a cylindrical cavity defined by opposed first and second arcuate walls, a flexible inspiration line that passes through the cavity and follows the first arcuate wall, a flexible expiration line that passes through the cavity and follows the second arcuate wall, a rotatable drum provided within the cavity between the inspiration line and the expiration line, the drum including a peripheral groove that receives a portion of the inspiration line and the expiration line and that includes a pinch roller, wherein as the rotatable drum rotates, the pinch roller alternately rolls along the portion of the inspiration line within the cavity and pinches it closed against the first arcuate wall and rolls along the portion of the expiration line within the cavity and pinches it against the second arcuate wall so as to alternately close and open the inspiration and expiration lines.

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