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(12) **United States Design Patent**
Zaykov et al.

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(54) **PHYSICAL ACTIVITY MACHINE**

(71) Applicants: **Georgi Ivanov Zaykov**, Sandanski (BG); **Ivan Georgiev Zaykov**, Sandanski (BG); **Tsvetan Georgiev Zaykov**, Sandanski (BG)

(72) Inventors: **Georgi Ivanov Zaykov**, Sandanski (BG); **Ivan Georgiev Zaykov**, Sandanski (BG); **Tsvetan Georgiev Zaykov**, Sandanski (BG)

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(52) **U.S. Cl.**

USPC **D21/798; D21/672**

(58) **Field of Classification Search**

USPC **D21/672, 694, 684, 420; 482/81, 82, 8, 482/106, 110, 129, 4, 2, 7**

(Continued)

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,333,005 A * 3/1920 Warner A63B 23/16
482/110

1,826,944 A * 10/1931 McGavin A63B 5/22
D21/672

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Primary Examiner — Ryan Harvey

(57) **CLAIM**

The ornamental design for a physical activity machine, as shown and described.

DESCRIPTION

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

1. Physical activity equipment
2. Physical activity equipment
3. Physical activity equipment

FIG. 1.1 is a front perspective view of the physical activity machine;

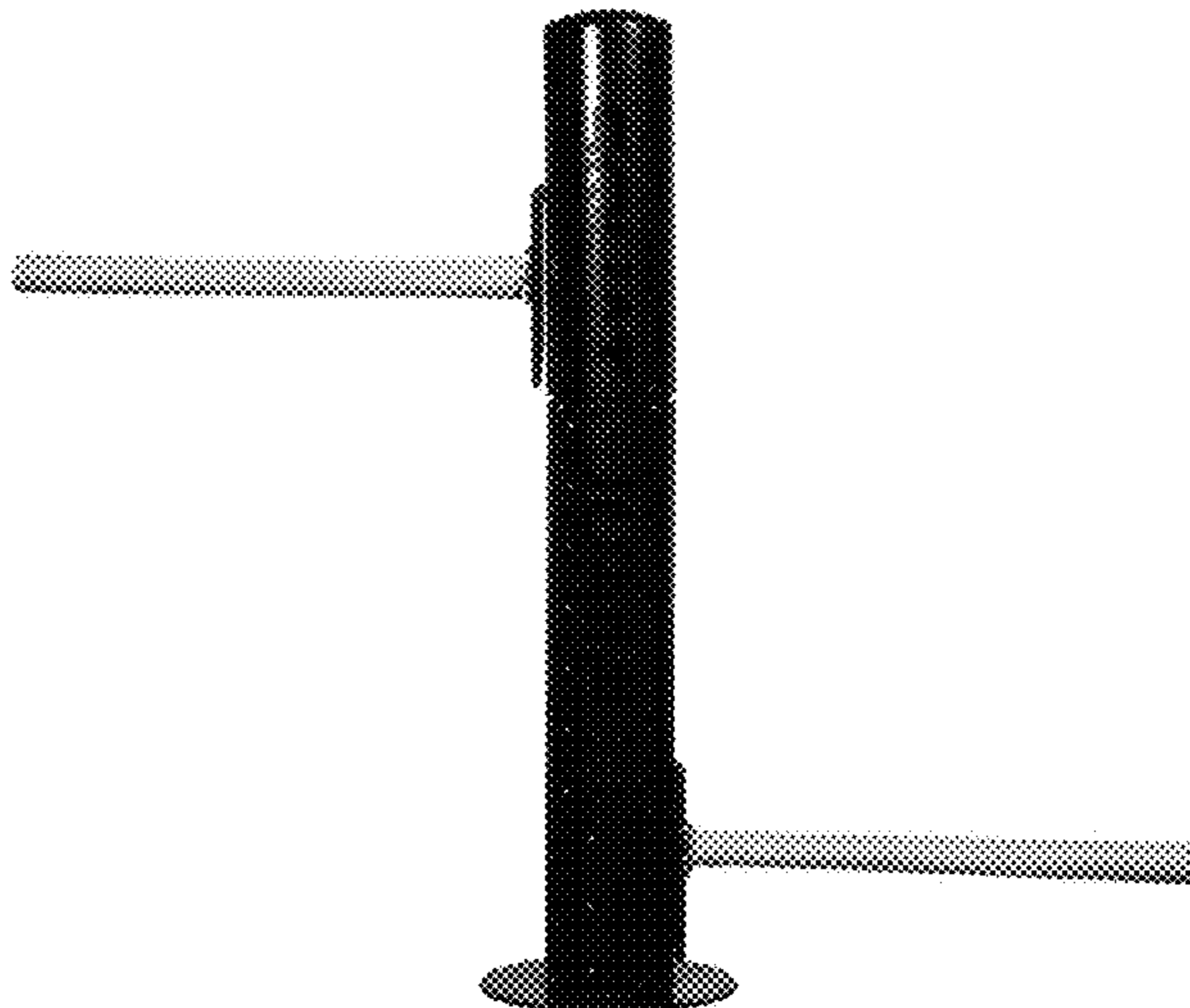
FIG. 1.2 is a right-side perspective view thereof;

FIG. 2 is a front perspective view of the physical activity machine, shown with the upper obstacle removed for clarity of disclosure; and

FIG. 3 is a front perspective view of the physical activity machine, shown with the lower obstacle removed for clarity of disclosure.

This physical activity machine is machine for fitness exercises and works on the principle of performing forced movements by the trainee, such as continuously alternating jumps and/or squats, from a place, in response to rotating obstacles constantly passing through the place of the training, such as a lower obstacle, obliging the trainee to perform a jump and the upper obstacle, obliging to perform a squat; the obstacles are diametrically disposed one to other; this fitness machine has a vertical column in the form of a cylinder, consisting of three tubular elements arranged one above the other from plastic material with the same form; the vertical column is nailed to the floor, for example in a gym, by means of the lower tubular element; the other two tubular elements are rotating and equipped by a slider in the shape of a parallelepiped; the sliders are located diametrically opposite each other and are able to attract the magnet provided on one end of each of the obstacles; the magnet connection between the cylindrical column and the obstacles allows this fitness machine to be able to work for training of squat only, or jump only, or for training the combination jump/squat.

1 Claim, 4 Drawing Sheets
(4 of 4 Drawing Sheet(s) Filed in Color)



(58) **Field of Classification Search**

CPC A63B 5/205; A63B 2208/12; A63B 5/20;
A63B 5/22; A63B 21/4035; A63B
2220/17

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,181,979 A * 12/1939 Schaeffer A63B 5/22
482/81
2,950,779 A * 8/1960 Wolfson A63B 5/20
185/37
D191,584 S * 10/1961 Tannahill D21/672
3,013,798 A * 12/1961 Willoughby A63B 5/20
482/81
3,104,104 A * 9/1963 Wood A63B 5/22
248/165
3,107,092 A * 10/1963 Morris A63B 5/20
74/417
3,182,999 A * 5/1965 Updaw A63B 5/22
482/81
3,241,832 A * 3/1966 Miller A63B 5/22
482/81
3,263,995 A * 8/1966 Morrow A63B 5/20
482/7
3,411,775 A * 11/1968 Delk, Jr. A63B 5/20
482/7
3,419,269 A * 12/1968 Saffer A63B 5/22
235/103
3,481,600 A * 12/1969 Rekolt A63B 5/20
482/81
3,589,718 A * 6/1971 Bessler A63B 5/22
482/81
3,589,719 A * 6/1971 Glass A63B 5/00
273/440
3,595,571 A * 7/1971 Spinnett A63B 5/20
482/81
3,610,616 A * 10/1971 Evans A63B 5/20
482/7
3,612,522 A * 10/1971 Ekonen A63B 5/20
482/82
3,797,825 A * 3/1974 Barrett A63B 5/22
482/81
4,082,266 A * 4/1978 Elkins A63B 5/20
482/7
D250,609 S * 12/1978 Lang D21/672
4,192,501 A * 3/1980 Peoples A63B 5/20
482/7
4,480,831 A * 11/1984 Muller-Deinhardt
A63B 21/0608
446/236
4,529,195 A * 7/1985 Stevens A63B 5/20
482/4
4,556,014 A * 12/1985 Huntsman A01K 15/023
231/1

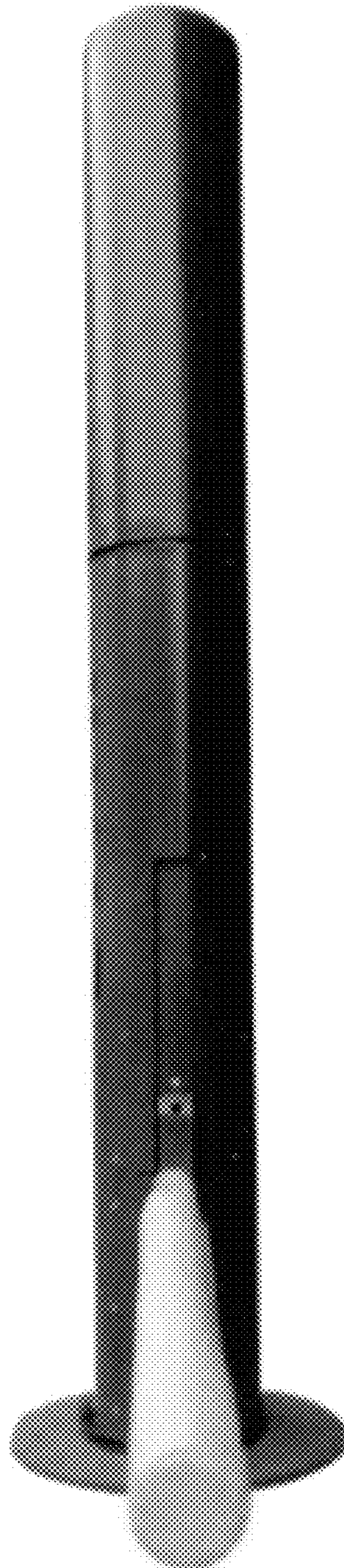
4,739,985 A * 4/1988 Rudell A63B 5/22
482/81
D299,668 S * 1/1989 Cook D21/672
4,875,675 A * 10/1989 Arad A63B 5/22
482/81
D309,484 S * 7/1990 Arad D21/672
5,060,936 A * 10/1991 Ekonen A63B 5/20
482/81
D325,234 S * 4/1992 Boyd D21/672
5,121,917 A * 6/1992 Gray A63B 5/20
482/3
5,167,599 A * 12/1992 Haller A63B 5/20
482/148
D334,784 S * 4/1993 DeZulueta D21/798
D337,138 S * 7/1993 Lopez D21/672
D356,127 S * 3/1995 Mara D21/798
5,464,376 A * 11/1995 Weston A63B 5/20
482/148
5,470,296 A * 11/1995 Welte A63B 5/22
482/79
5,496,204 A * 3/1996 Brown A63B 5/22
446/236
5,549,528 A * 8/1996 Bryant A63B 5/20
482/148
5,888,179 A * 3/1999 Singhal A63B 69/0053
482/3
5,931,766 A * 8/1999 Cooper A63B 5/22
482/81
5,961,425 A * 10/1999 Reid A63B 5/20
482/81
D426,274 S * 6/2000 Harrison D21/672
6,113,452 A * 9/2000 McGowan A63B 5/22
446/236
6,645,123 B1 * 11/2003 Davis A63B 5/20
482/81
6,726,604 B2 * 4/2004 Verdun A63B 5/22
482/81
6,776,679 B1 * 8/2004 Menow A63B 5/22
446/236
7,195,534 B1 * 3/2007 Millman A63B 5/22
446/236
7,727,126 B1 * 6/2010 Foster A63B 5/20
482/81
D641,811 S * 7/2011 Brenner D21/798
D705,365 S * 5/2014 Chen D21/672
10,220,232 B2 * 3/2019 Sandoval G06F 3/011
10,279,358 B2 * 5/2019 Pickens, Jr. B05B 1/205
D949,243 S * 4/2022 Huang D21/672
2002/0123413 A1 * 9/2002 Reid A63B 5/20
482/81
2005/0020413 A1 * 1/2005 Rudell A63B 5/22
482/81
2005/0020414 A1 * 1/2005 Rudell A63B 5/22
482/81
2005/0164846 A1 * 7/2005 Rudell A63B 71/0054
482/81
2017/0173377 A1 * 6/2017 Zaykov A63B 71/0054
2022/0105377 A1 * 4/2022 Zaykov A63B 71/0054

* cited by examiner

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1.2



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