



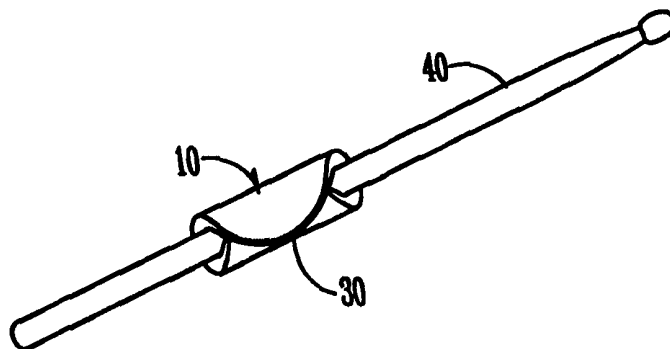
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<p>(21) International Application Number: PCT/US98/20385</p> <p>(22) International Filing Date: 30 September 1998 (30.09.98)</p> <p>(30) Priority Data: 60/060,210 30 September 1997 (30.09.97) US</p> <p>(71)(72) Applicant and Inventor: JOHNSON, Peter, M. [US/US]; 21816 Providencia, Woodland Hills, CA 91364 (US).</p> <p>(74) Agent: HARTUNG, Wendy, K.; Zarley, McKee, Thomte, Voorhees & Sease, Suite 3200, 801 Grand Avenue, Des Moines, IA 50309-2721 (US).</p>		<p>(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).</p> <p>Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i></p>

(54) Title: WEIGHTS FOR DRUM-STICK

(57) Abstract

Drum stick weights (10) are described that include weighted material (20) that may be releasably attached to drum sticks (40). The weighted material (20) may optionally be placed in separate means used to secure the weighted material (20) to the drum sticks (40). The drum stick weights (10) are compact and easy to manufacture. The drum stick weights (10) can be used to increase drummer's drum playing skills and flexibility.



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TITLE: WEIGHTS FOR DRUM-STICK

BACKGROUND OF THE INVENTION

5 A common routine for drummers during practice sessions and when warming up on their drums is to play with two drum sticks in each hand. The added weight allows drummers to strengthen their wrist muscles. When the weights are removed from the sticks, the drummer notices an increase in control, speed and agility while playing. This practice has several drawbacks,
10 however.

First, extra drum sticks are bulky and can be difficult for the drummer to maneuver and control. The extra sticks are also inconvenient for the drummer to carry. Further, the added drum sticks are awkward and bulky to manipulate and can easily slip around in the drummer's hands while
15 practicing. Moreover, additional drum sticks distort the true shape and feel of the drum sticks in the musicians' hands.

There is therefore a need in the art for a more convenient and efficient means of improving drum playing skills which allows drummers to strengthen their wrist muscles without distorting the normal size and feel of the drum
20 sticks.

Accordingly, it is a primary objective of the present invention to provide a method and means of improving drum playing skills which eliminates the need for the drummer to practice using two sticks in each hand.

It is another objective of the present invention to provide a method and
25 means of improving drum playing skills which is convenient for the drummer to practice.

It is a further objective of the present invention to provide a method and means of improving drum playing skills which does not distort the normal feel of the drum sticks.

It is yet a further objective of the present invention to provide a method and means of improving drum playing skills which is not bulky or awkward to use.

It is another objective of the present invention to provide a method and means of improving drum playing skills which is economical.

The method and means of accomplishing each of the above objectives as well as others will become apparent from the detailed description of the invention which follows hereafter.

10 SUMMARY OF THE INVENTION

The invention describes a method and means for improving drum playing skills which also strengthens the drummer's wrist muscles. The method includes the application of at least one weight to one or both drum sticks during warm-up or practice. The weights are small and easy to carry and are not bulky when placed on the drum sticks. Further, the weights conform to the shape of the drumstick, and therefore do not distort the true shape and feel of the drum sticks in the musicians' hands.

DESCRIPTION OF THE DRAWINGS

20 FIG. 1 is a perspective view of a preferred embodiment of a drum stick weight in accordance with the present invention.

FIG. 2 is a sectional view of a preferred embodiment of a drum stick weight in accordance with the present invention taken along lines 2--2 of FIG. 1.

25 FIG. 3 is an elevational view of a preferred embodiment of a drum stick weight in accordance with the present invention as shown on a drum stick.

FIG. 4 is an elevational view of an alternative embodiment of drum stick weights in accordance with the present invention as shown on a pair of drum sticks.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The drum stick weights of the present invention are generally designated in the drawings by the reference numeral **10**. Each weight **10** generally includes weighted material **20** and may also have a means of attaching **30** the weighted material **20** to the drum stick **40**.

The weighted material **20** used in the drum stick weight **10** can be manufactured from a variety of materials that are conventionally used in making weights for other purposes including metals such as lead, iron, graphite, and steel and various other materials including stone and wood. These materials can also be used in combination. The only requirement for the weighted material **20** is that it be sufficiently heavy so that it does not require large quantities of the material to add the requisite amount of weight to the drum sticks **40**.

The weighted material **20** should generally be included in an amount that adds from about one to seven ounces of total weight to the drum stick **40**. The preferred weight is about two ounces. More or less weight can be added or subtracted from the drum stick weight **10** depending on the personal needs and preferences of the individual drummer. However, if too much weight is added, it may be too difficult for the drummer to maneuver the drum sticks **40**. Conversely, if insufficient weight is added, the drummer will not derive a benefit from using the drum stick weights **10**.

The drum stick weight **10** may include a means of attaching **30** the weighted material **20** to the drum stick **40**. The only requirement for the means for attaching **30** is that it somewhat conform to the shape of the drum stick **40** so that it is not overly bulky and/or distort the feeling of the drum stick **40** in the drummer's hand. A preferred means of attaching the weighted material **20** to the drum stick **40** is through the use of a wrap-around attachment **30** which evenly distributes the weight around the drum stick **40**. Such wrap-around means of attachment **30** is shown in a preferred embodiment of the drum stick weights **10** in Figures 1-3. The attachment means **30** can generally be made of any type of material that is sturdy enough

to hold the weighted material **20**. Such materials include cotton, rayon, leather, burlap, nylon, plastic etc. The attachment means **30** can be molded in one piece or made of two pieces of separate material which can be used to "sandwich" the weights **20**.

5 The attachment means **30** may be formed in a "hoop" so that it can simply be slid onto the drum stick **40**. The attachment means **30** can also be made to include at least one fastener **32** on at least one end **34** to enclose the drum stick weight **10** around the drum stick **40**. The fastener **32** can be any type of conventional fastener, such as Velcro, snaps, buttons, tape, glue etc.
10 Velcro is preferred since it allows the user to easily adjust the tightness of the fit of the weight **10** on the drum stick **40** and also compensates for drum sticks **40** of different widths. The attachment means **30** can also be made of a flexible or accordion pleated material that can be stretched to snugly fit around the drum stick **40**.

15 The weighted material **20** itself can also be curved so that it conforms to the shape of the drum stick **40**. Thus, the weighted material **20** can then be slipped directly onto the drum stick **40** without the need for a separate attachment means **30**. Furthermore, a liner can be placed along the inside part of the curved weighted material **30** which contacts the drum stick **40**, so
20 that the weighted material **30** better grips the drum stick **40** to prevent the drum stick weight **10** from sliding up and down the stick **40** or completely slipping off. Such liners can be made of plastic, rubber, or other material that is capable of creating a frictional surface between the weighted material **20** and the drum stick **40**.

25 Figure 1 shows a preferred embodiment of the drum stick weights **10** wherein the weighted materials **20** are elongated and placed in pockets **36** in the center portion **38** of the attachment means **30**. The pockets **36** serve a number of functions including preventing the weighted material **20** from falling out of the attachment means **30**, protecting the drummer's hands and
30 drums from impact with the weighted material **20**, and likewise protecting the weighted material **20** from damage. The pockets **36** also position the weighted

material **20** so that it is evenly distributed around the circumference of the drum stick **40**.

The pockets **36** may optionally have openings so that one or more weighted material **20** may be removed or added to the drum stick weight **10** so that the overall weight of the drum stick **40** may be easily varied.

The drum stick weight **10** shown in Figure 1 is generally oval in shape. However, it can also be rectangular, round, square, or any other shape capable of wrapping around the drum stick **40**. Oval is preferred. Each end **34** of the attachment means **30** is preferably reinforced with a heavy material, such as leather. Here, the attachment means **30** is shown with Velcro fasteners **32** on each end **34**.

While the drum stick weight **10** does not have to be of any particular length or width, as a practical matter it should have a horizontal length of between about 7.5 to 20.3 centimeters and a vertical width of between about 2.5 to 10.1 centimeters. If the length is more than 20.3 centimeters, the drummer's hands may contact the weight **10**, thereby distorting the feeling of the drum sticks **40**. If the drum stick weight **10** is wider than 10.1 centimeters, it may add too much bulk to the drum stick **40**.

Another embodiment of the drum stick weights **10** is shown in Figure 4 and is designated as **10a**. Here, at least one barbell shaped weight **20a** is secured to the drum sticks **40** using elastic bands **30a**. The weighted material **20a** can also be similarly secured using non-elastic fasteners, such as string. There may also be a pad **22** positioned between the weighted material **20a** and the drum stick **40** to prevent the weighted material **20a** from sliding or scratching the drum stick **40**.

In practice, when the drummer begins warming up, he/she takes one or more drum stick weights **10** and slides it on or wraps it around the drum stick(s) **40**. The weight **10** is placed on the drum stick **40** so that it preferably avoids contacting the drummer's hand while playing. While the drummer is playing, the increased weight increases the amount of strength necessary for the drummer to navigate the drum sticks **40** around the drums and provides

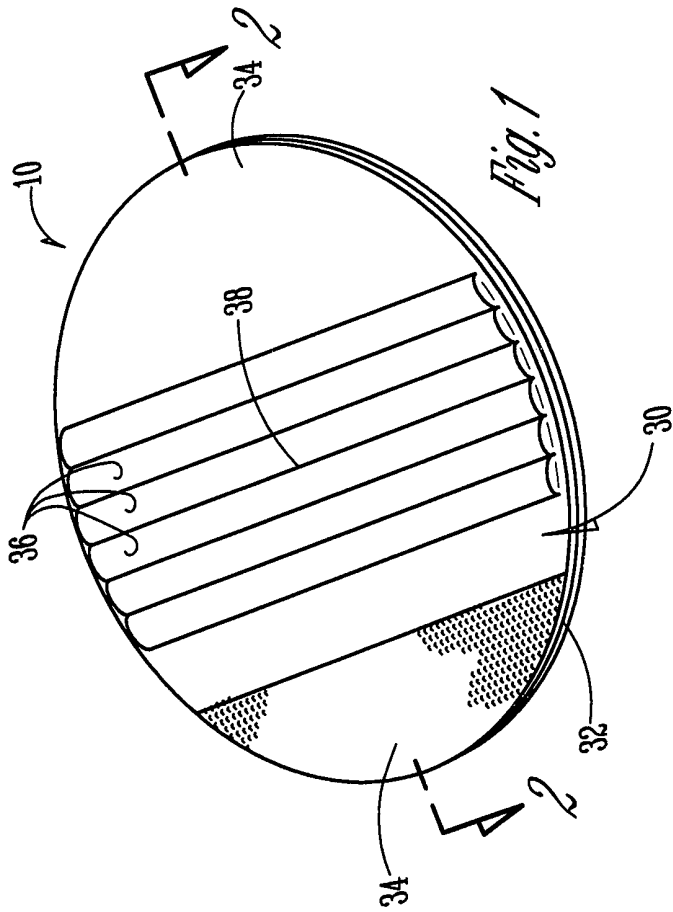
increased resistance. Once the practice session or warm-up is over, the drum stick weights **10** are removed from the drum sticks **40**. Once removed, the drummer will immediately notice that the suddenly lighter drum sticks **40** are much easier to maneuver while playing. With prolonged use, the drummer
5 will notice increased muscle strength in the wrists and arms, which will contribute to an increased ability to play. Drummers can easily transport the compact drum stick weights **10** to and from practice sessions and gigs by slipping them in their pockets, drum stick holders, or drum cases.

The invention has been shown and described above in connection with
10 the preferred embodiment, and it is understood that many modifications, substitutions, and additions may be made which are within the intended broad scope of the invention. From the foregoing, it can be seen that the present invention accomplishes at least all of the stated objectives.

I claim:

1. A method of increasing improving drum playing skills comprising:
applying at least one drum stick weight to at least one drum stick prior to
playing a drum; playing the drum using the drum stick with the applied
5 weight.
2. A method according to claim 1 wherein the drum stick weight is applied
by placing the drum stick weight in a means of attaching the weight and
placing the attaching means on the drum stick.
10
3. A drum stick weight comprising: a weighted material;
said weighted material being removably attached to a drum stick.
4. A drum stick weight according to claim 5 wherein the weighted material
15 is curved to conform to the shape of the drum stick.
5. A drum stick weight according to claim 7 further including a padded
material placed between the weighted material and the drum stick.
- 20 6. A drum stick weight according to claim 5 further including a means of
attaching the weighted material to the drum stick.
7. A drum stick weight according to claim 10 wherein the means includes
pockets, said weighted material being placed within said pockets.
25
8. A drum stick weight according to claim 5 wherein the weighted material
is disbursed evenly around the drum stick.
9. A drum stick weight according to claim 5 wherein the weighted material
30 weighs from about one to seven ounces.

10. A drum stick weight according to claim 10 wherein the means of attaching the weighted material is from about 7.6 to 20.3 centimeters in length and from about 2.5 to 10.1 centimeters in width.



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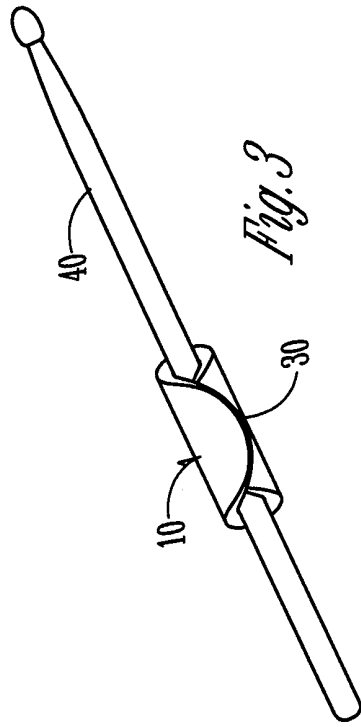


Fig. 3

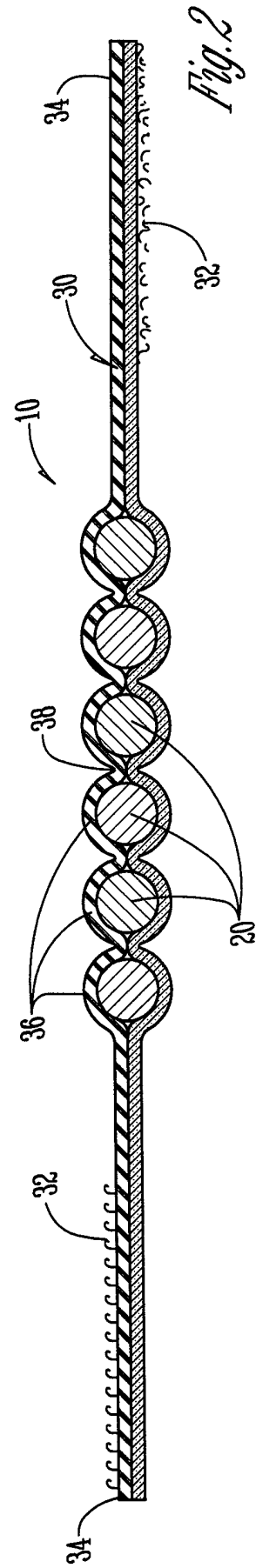


Fig. 2

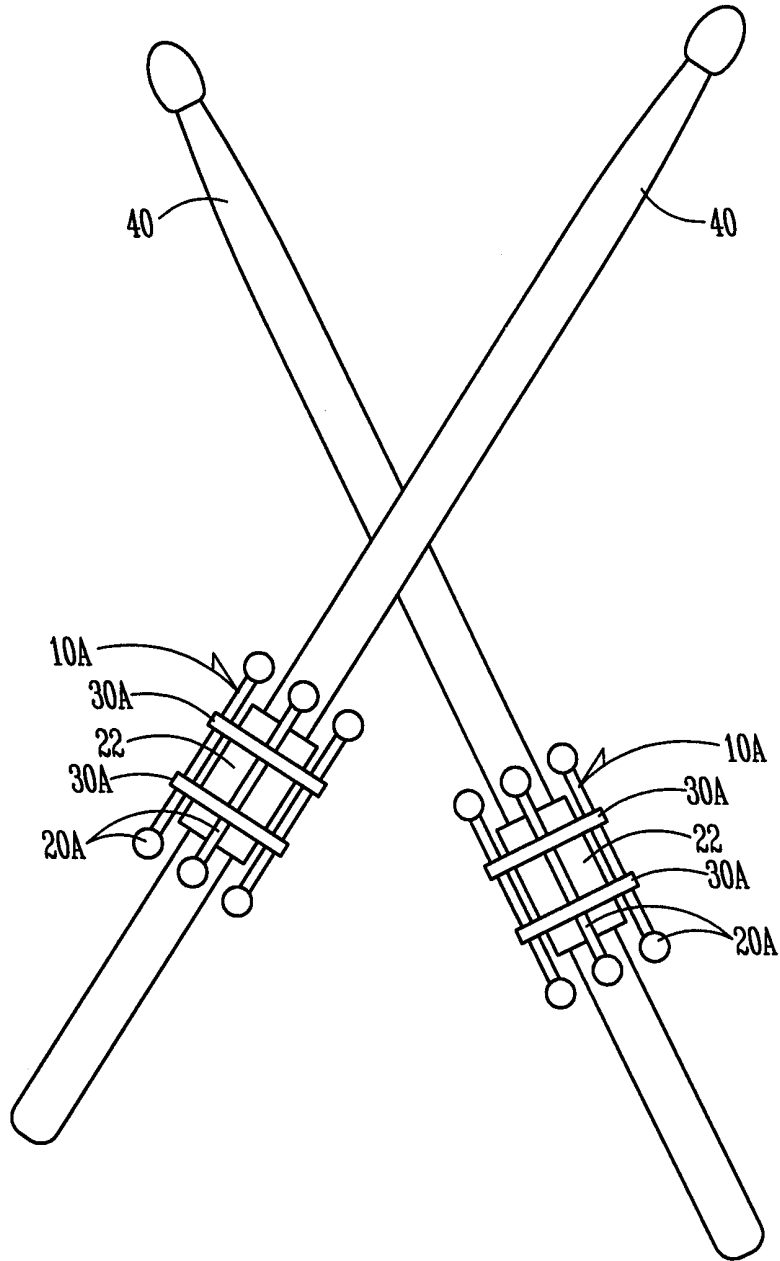


Fig. 4

INTERNATIONAL SEARCH REPORT

In International Application No PCT/US 98/20385

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 6 G10D13/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 IPC 6 G10D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 521 336 A (M. BRAMSON) 5 September 1950 *Whole document* -----	1-4, 6

Further documents are listed in the continuation of box C.
 Patent family members are listed in annex.

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Date of the actual completion of the international search 1 February 1999	Date of mailing of the international search report 08/02/1999
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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2521336	A	NONE	