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[Continued on next page]

(54) **Title**: PORTABLE BOBBIN WINDER

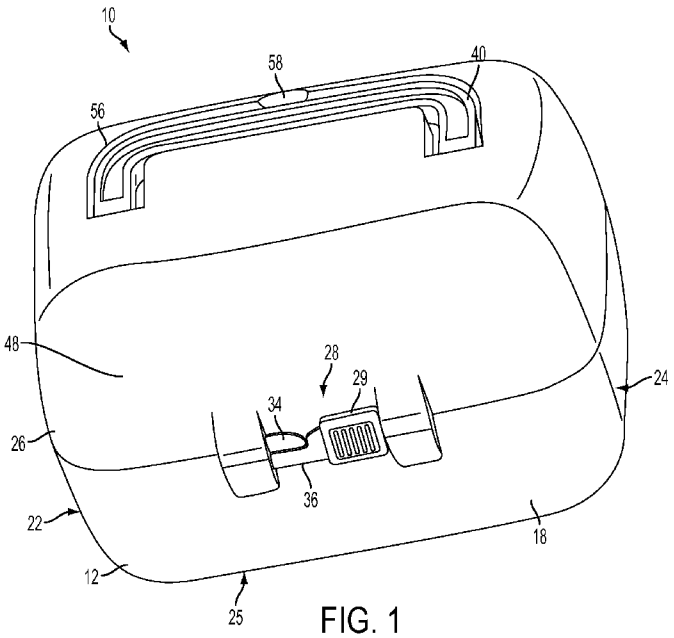


FIG. 1

(57) **Abstract**: Disclosed is a portable device for winding thread around a bobbin from a spool of thread. The device includes a height adjustable thread holder configured to receive the spool of thread, a thread guide bar pivotable between a stored position and an operative position, and an adjustable tension feed device for applying tension to the thread during winding. The device also includes a spindle slot configured to receive one of a plurality of rotatable spindles that are interchangeable within the spindle slot so that different corresponding spindles can be used with the device. Also, a speed control knob for adjusting a speed at which the spindle rotates and thus at which thread is wound around the bobbin from the spool of thread, a fill knob for adjusting the amount of thread to be wound on the bobbin, and an automatic shut off mechanism are disclosed.

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INTERNATIONAL SEARCH REPORT

International application No.
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A. CLASSIFICATION OF SUBJECT MATTER

D05B 59/00(2006.01)i, B65H 75/40(2006.01)i, B65H 75/34(2006.01)i

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)

D05B 59/00; B65H 59/10; B65H 54/00; B65H 59/22

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) & Keywords: bobbin, wind

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 06036136A A (BOBO; BETTY) 14 March 2000 See the abstract, column 4, lines 4-65 and figures 1-3.	6,9,10,12-14 1-5,7,8,11,15
A	KR 20-0333639 Y1 (PARK; SANG GYUN) 15 November 2003 See the abstract.	1-15
A	US 05871163A A (BERTOLI; LUCIANO et al.) 16 February 1999 See the abstract.	1-15

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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KR 20-0333639 Y1	15.11.2003	None	
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