

Title (en)  
Wire winding apparatus

Title (de)  
Gerät zum Aufwickeln von Draht

Title (fr)  
Appareil pour l'enroulement de fil

Publication  
**EP 0669173 B1 19981021 (EN)**

Application  
**EP 95101785 A 19950209**

Priority  
JP 1652594 A 19940210

Abstract (en)  
[origin: EP0669173A1] A wire winding apparatus is disclosed which can continuously wound up a wire into a plurality of bundles readily and with certainty without interrupting operation of the apparatus and can achieve labour saving, improvement in productivity and improvement in quality at a reduced cost. The wire winding apparatus is so constructed as to wind a wire (7) having a rigidity into a plurality of coils each in the form of a bundle interposing a spacer each time a coil unit constituted from a predetermined amount of the wire is taken up. The wire winding apparatus includes a turntable (1) mounted for rotation around a vertical axis, a take-up frame (2) carried coaxially for integral rotation on the turntable (1) and having a winding portion (22) around which the wire delivered thereto is wrapped, and a spacer supply apparatus (3) provided coaxially above the turntable for supporting thereon a plurality of spacers (4) each in the form of a perforated plate in such a manner as to allow, each time a coil unit is taken up onto the take-up frame (2), a spacer (4) to drop therefrom so that the spacer may be loosely fitted onto the winding portion (22) of the take-up frame thereby to interpose the spacer between two adjacent coil units. <IMAGE>

IPC 1-7  
**B21C 47/04**; **B21C 47/00**; **B65H 55/00**

IPC 8 full level  
**B21C 47/00** (2006.01); **B21C 47/04** (2006.01); **B65H 54/02** (2006.01); **B65H 54/56** (2006.01); **B65H 54/80** (2006.01); **B65H 55/04** (2006.01)

CPC (source: EP)  
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Cited by  
CN103480687A; CN103730928A; CN107695130A

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DE FR IT

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**EP 0669173 A1 19950830**; **EP 0669173 B1 19981021**; DE 69505433 D1 19981126; DE 69505433 T2 19990415; JP 2578313 B2 19970205; JP H07223771 A 19950822

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