INTERNATIONAL STANDARD 2162

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Technical drawings — Representation of springs

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FOREWORD

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Draft International Standards adopted by the Technical Committees are circulated to the Member Bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 2162 was drawn up by Technical Committee ISO/TC 10, *Technical drawings,* and circulated to the Member Bodies in January 1971.

It has been approved by the Member Bodies of the following countries :

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Belgium	Ireland	Spain
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Egypt, Arab Rep. of	Korea, Rep. of	U.S.A.
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The Member Body of the following country expressed disapproval of the document on technical grounds :

Portugal

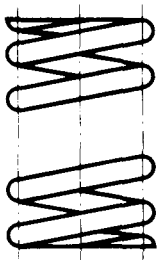
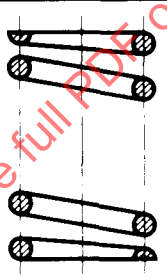
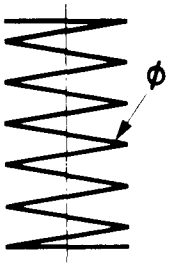
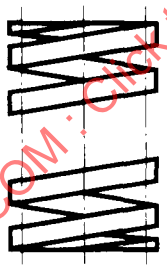
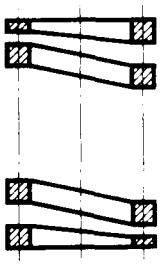
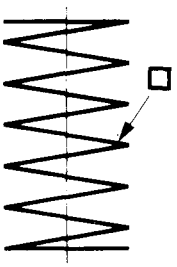
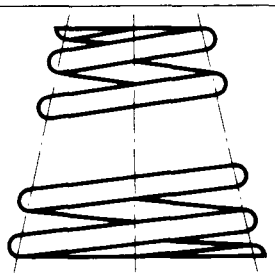
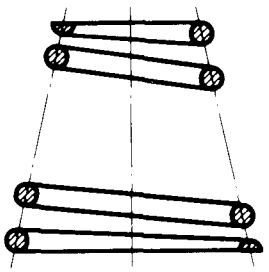
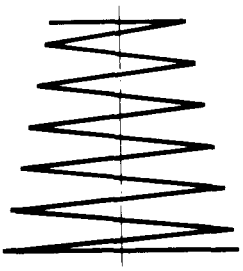
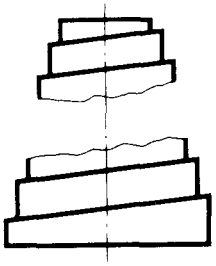
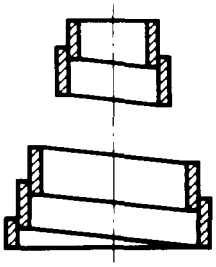
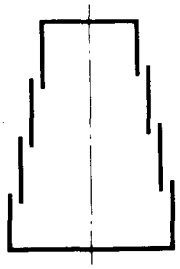
Printed in Switzerland

Technical drawings — Representation of springs

1 SCOPE AND FIELD OF APPLICATION

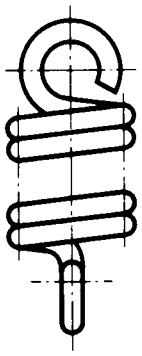
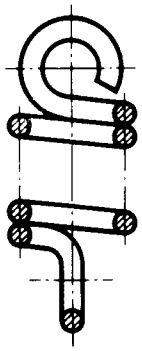
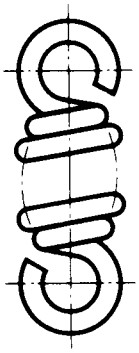
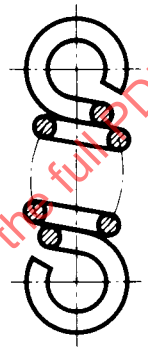
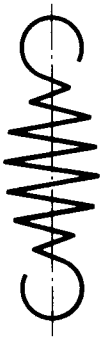
This International Standard specifies, by means of examples, the rules for representation of springs on technical drawings.

2 COMPRESSION SPRINGS

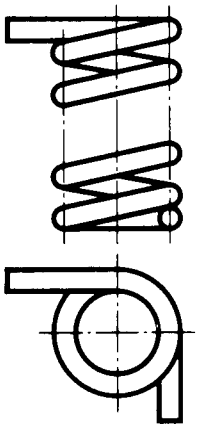
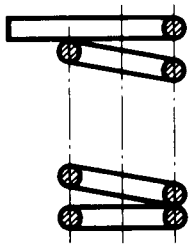
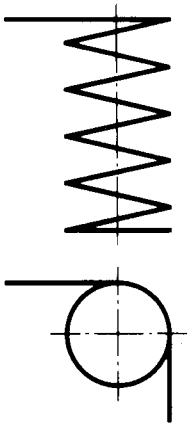
Title	Representation		
	view	section	simplified[1]
2.1 Cylindrical helical compression spring of wire of circular cross-section			
2.2 Cylindrical helical compression spring of wire of rectangular cross-section			
2.3 Conical helical compression spring of wire of circular cross-section			
2.4 Conical helical compression spring of wire of rectangular cross-section (volute spring)			

1) If necessary, indicate «Wound left (or right) hand».
If necessary, the cross-section of the spring material may be indicated in words or by a symbol (see 2.1 and 2.2).

3 TENSION SPRINGS

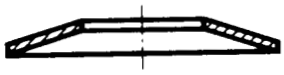
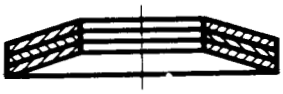
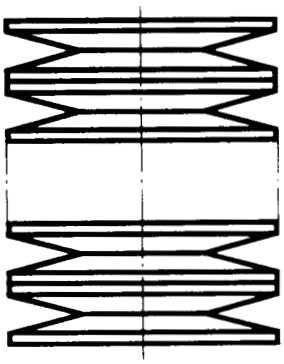
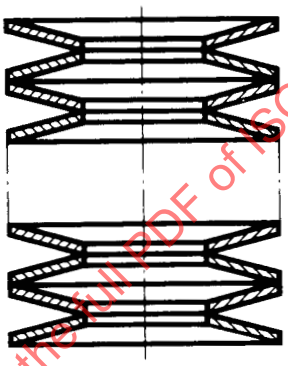
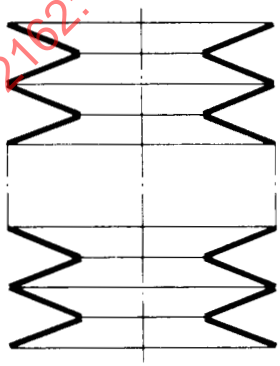
Title	Representation		
	view	section	simplified[1]
3.1 Cylindrical helical tension spring of wire of circular cross-section			
3.2 Double-conical helical tension spring of circular cross-section			

4 TORSION SPRINGS

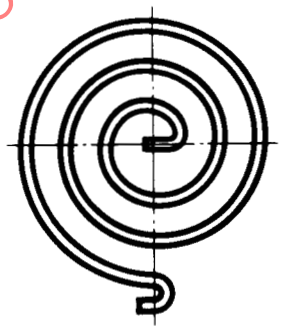
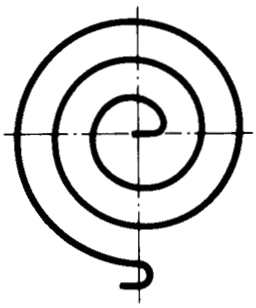
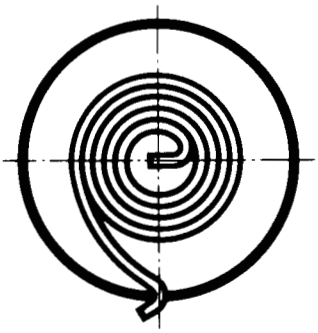
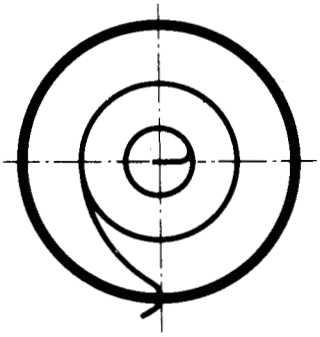
Title	Representation		
	view	section	simplified[1]
4.1 Cylindrical helical torsion spring of wire of circular cross-section (Wound right hand)			

1) If necessary, indicate «Wound left (or right) hand».
If necessary, the cross-section of the spring material may be indicated in words or by a symbol (see 2.1 and 2.2).

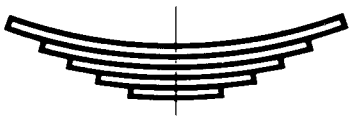
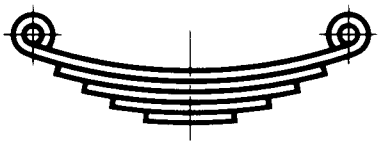
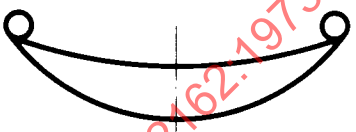
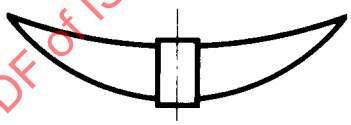
5 CUP SPRINGS

Title	Representation		
	view	section	simplified
5.1 Cup spring			
5.2 Multi-cup spring (cups placed in the same direction)			
5.3 Multi-cup spring (successive cups alternating in direction) direction)			

6 SPIRAL SPRINGS

Title	Representation	
	view	simplified
6.1 Spiral spring		
6.2 Spiral spring (the spring is wound by rotating the box)		

7 LEAF SPRINGS

Title	Representation	
	view	simplified
7.1 Semi-elliptic leaf spring (multi-elliptic spring shown)		
7.2 Semi-elliptic leaf spring with eyelets		
7.3 Semi-elliptic leaf spring with centre band		
7.4 Semi-elliptic leaf spring with eyelets and centre band