

BORING MACHINES

A quick look at some boring machines

by Guy Bloke, *Improbable Research* staff

Many patient, determined hours, days, and years of work went into the invention and improvement of boring machines. Here is a haphazard selection of some of the fruits of that persistent labor.

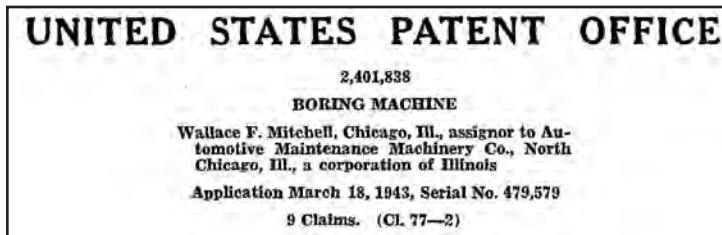
Wallace's Boring Machine

"Boring Machine," U.S. patent #2413574, Mitchell F. Wallace, issued December 31, 1946.



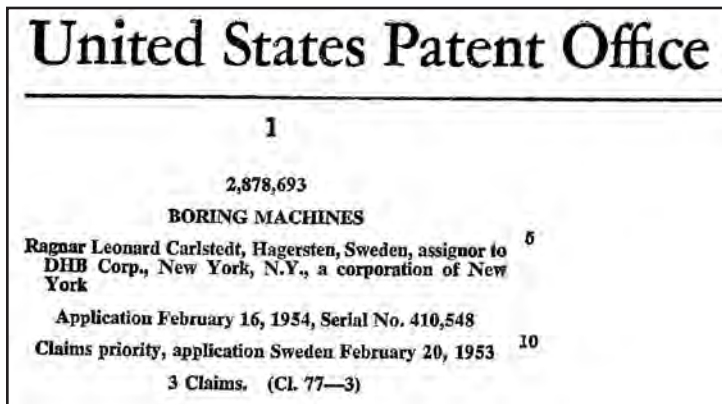
Wallace's Other Boring Machine

"Boring Machine", U.S. patent # 2401838, Mitchell F. Wallace, issued June 11, 1946.



Carlstedt's Boring Machines

"Boring Machines," U.S. patent #2878693, R.L. Carlstedt, issued March 24, 1959.



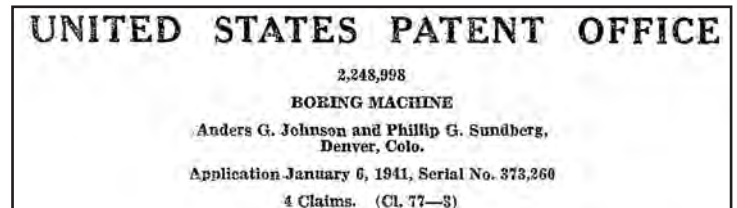
Crane's Boring Machine

"Boring Machine," U.S. patent # 513088, Henry W. Crane, issued January 23, 1894.



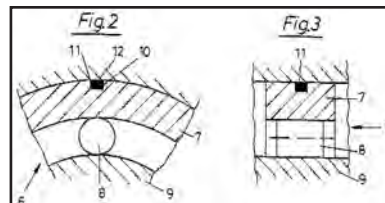
Johnson and Sundberg's Boring Machine

"Boring Machine", U.S. patent #2248998, Anders G. Johnson and Phillip G. Sundberg, issued July 15, 1941.



Böing's Boring Machine

"Process and System for Monitoring Wheel-Type Boring Machines," European patent application EP0203978, by Rolf Böing, Dietmar Frase, and Manfred Noeske, December 10, 1986.



Small details from the patent application for Böing's boring machine.

Cristadoro's Boring Machine

"Boring Machine," U.S. patent # 529712, Charles Cristadoro, issued November 27, 1894.

UNITED STATES PATENT OFFICE.

CHARLES CRISTADORO, OF ST. PAUL, MINNESOTA.

MULTIPLE BORING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 529,712, dated November 27, 1894.

Application filed April 30, 1892. Serial No. 431,331. (No model.)

Improvement in Boring Machines

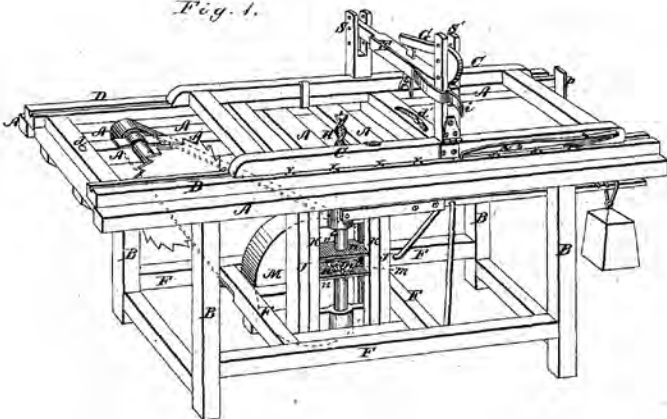
"Improvement in Boring Machines," U.S. patent #125828, John. L. Metcalfe, issued April 16, 1872.

Improvement in Boring Machines.

No. 125,828.

Patented April 16, 1872.

Fig. 1.



Metcalfe's patent for an improvement in a boring machine.

Boring Apparatus

"Boring Apparatus," U.S. patent #2439492, John Gilbert Sharratt and Albert Gordon, issued April 13, 1948.

Patented Apr. 13, 1948

2,439,492

UNITED STATES PATENT OFFICE

2,439,492

BORING APPARATUS

John Gilbert Sharratt and Albert Gordon
Sharratt, West Bromwich, England

Application November 23, 1945, Serial No. 630,454
In Great Britain July 26, 1944

4 Claims. (Cl. 77-2)

PATENTED OCT. 13, 1903.

C. B. WEIDLOG. INDICATOR FOR BORING MACHINES. APPLICATION FILED JAN. 29, 1903.

FIG. 1.

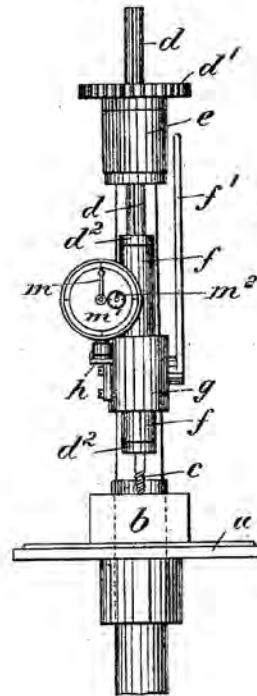


FIG. 5.

Indicator for Boring-Machines

"Indicator for Boring-Machines," U.S. patent #741087, Carl B. Weidlog, issued October 13, 1903.

Control Device for a Boring Machine

"Control Device for Boring Machine," European patent application EP1016481, Murakami Keiichi and Shoji Michihiro, March 18, 1997.

Proksa's Boring Device

"Boring Device," U.S. patent #2231992, John R. Proksa, issued February 16, 1943.

UNITED STATES PATENT OFFICE

2,310,992

BORING DEVICE

John R. Proksa, Chicago, Ill.

Application January 21, 1939, Serial No. 252,163

2 Claims. (Cl. 77-58)

This invention relates to boring devices and is in accordance with one form of my invention operating

Janse's Boring Device

"Boring Device," U.S. patent application #12/066766, Jean-Philippe Janse, filed September 11, 2006.

continued >

BORING MACHINES [CONTINUED]

Böttger and Wesselmann's Boring Device

“Boring Device,” European patent application EP1012440, Peter Böttger and Bernhard Wesselmann, filed July 9, 1999.

(19)		Europäisches Patentamt European Patent Office Office européen des brevets		(11)	EP 1 012 440 B1
(12)	EUROPÄISCHE PATENTSCHRIFT				
(45)	Veröffentlichungstag und Bekanntmachung des Hinweises auf die Patenterteilung: 02.05.2003 Patentblatt 2003/18		(51)	Int Cl.7: E21B 21/12, E21B 6/00	
(21)	Anmeldenummer: 99936506.7		(86)	Internationale Anmeldenummer: PCT/EP99/04833	
(22)	Anmeldetag: 09.07.1999		(87)	Internationale Veröffentlichungsnummer: WO 00/003115 (20.01.2000 Gazette 2000/03)	
(54)	BOHRVORRICHTUNG BORING DEVICE DISPOSITIF DE FORAGE				

Boring Method

“Boring Method,” European patent application EP2266733, Hideki Sadaoka and Takashi Seto, filed April 17, 2009.

(19)		Europäisches Patentamt European Patent Office Office européen des brevets		(11)	EP 2 266 733 B1
(12)	EUROPEAN PATENT SPECIFICATION				
(45)	Date of publication and mention of the grant of the patent: 28.11.2012 Bulletin 2012/48		(51)	Int Cl.: B23B 41/12 (2006.01) B23B 29/02 (2006.01) B23B 29/12 (2006.01)	
(21)	Application number: 09732515.3		(86)	International application number: PCT/JP2009/057794	
(22)	Date of filing: 17.04.2009		(87)	International publication number: WO 2009/128544 (22.10.2009 Gazette 2009/43)	
(54)	BORING METHOD BOHRVERFAHREN PROCÉDÉ DE PERÇAGE				

Boring Device and Boring Method

“Boring Device and Boring Method,” European patent application EP1389513A4, Toshio Imaoka, filed May 17, 2002.

[Note: On July 16, 2010, this application was “deemed to be withdrawn.”]