

PatBase - Search results 10 August 2018

Search query (9): [SP]: 1. an extensible shell for constructing a support pier in ground, the extensible shell defining an interior for holding granular construction material and defining a first end having a first opening therethrough for receiving the granular construction material into the interior and an opposing second end having a second opening therethrough, wherein the shell is flexible such that the shell expands laterally outward when granular construction material is compacted in the interior of the shell. 2. the extensible shell of claim 1, wherein the shell is shaped to taper downward from the first end to the opposing second end of the shell. 3. the extensible shell of claim 2, wherein a cross-section of the shell forms one of a substantially hexagonal shape and a substantially octagonal shape along a length of the shell extending between the first and second ends. 4. the extensible shell of claim 2, wherein a cross-section of the first end is sized larger than a cross-section of the second end. 5. the extensible shell of claim 1, wherein the shell is comprised of plastic. 6. the extensible shell of claim 1, wherein the shell defines a plurality of apertures extending between an interior of the shell to an exterior of the shell. 7. the extensible shell of claim 1, wherein the shell is substantially cylindrical in shape. 8. the extensible shell of claim 1, wherein the shell is substantially conical in shape.

Results: 50

Search history

Search CPC=(E02D7/28 or E02D23/00) (Results 810)

1:

Search SFT=(extensible or extending or extendible) (Results 1000000)

2:

Search 1 and 2 (Results 150)

3:

Search pillar and 3 (Results 3)

4:

Search SFT=(housing or formwork) (Results 1000000)

5:

Search 1 and 5 (Results 67)

6:

Search pillar and 6 (Results 0)

7:

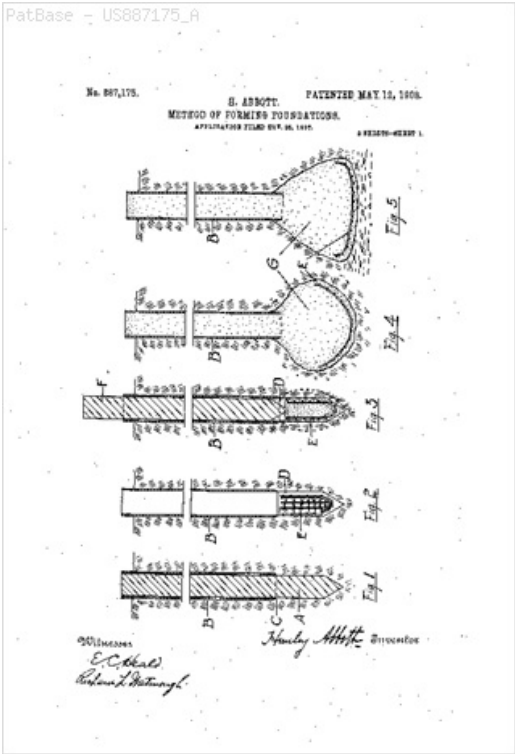
Search PN=(WO/2017/019682) (Results 1)

8:

Search [SP]: 1. an extensible shell for constructing a support pier in ground, the extensible shell defining an interior for holding granular construction material and defining a first end having a first opening therethrough for receiving the granular construction material into the interior and an opposing second end having a second opening therethrough, wherein the shell is flexible such that the shell expands laterally outward when granular construction material is compacted in the interior of the shell. 2. the extensible shell of claim 1, wherein the shell is shaped to taper downward from the first end to the opposing second end of the shell. 3. the extensible shell of claim 2, wherein a cross-section of the shell forms one of a substantially hexagonal shape and a substantially octagonal shape along a length of the shell extending between the first and second ends. 4. the extensible shell of claim 2, wherein a cross-section of the first end is sized larger than a cross-section of the second end. 5. the extensible shell of claim 1, wherein the shell is comprised of plastic. 6. the extensible shell of claim 1, wherein the shell defines a plurality of apertures extending between an interior of the shell to an exterior of the shell. 7. the extensible shell of claim 1, wherein the shell is substantially cylindrical in shape. 8. the extensible shell of claim 1, wherein the shell is substantially conical in shape. (Results 50)

Title: METHOD OF FORMING FOUNDATIONS.

Classifications:
CPC: E02D5/44
US: 405/237 405/239



Family:

Publication number	Publication date	Application number	Application date
US887175 A	19080512	US19070403815	19071125

Priority:

US19070403815 19071125

Probable Assignee:	ABBOTT HUNLEY
Assignee(s): (std):	ABBOTT HUNLEY
Assignee(s):	HUNLEY ABBOTT
Inventor(s): (std):	ABBOTT HUNLEY
Inventor(s):	HUNLEY ABBOTT

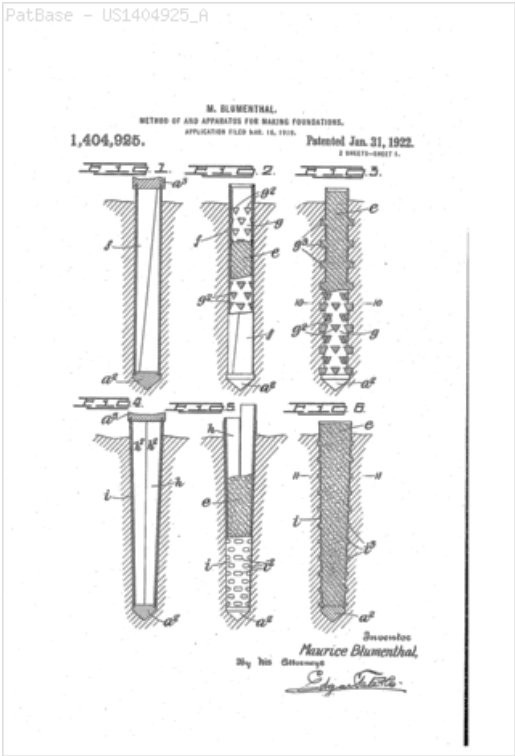
Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US887175 A	19080512	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: Method of and apparatus for making foundations

Classifications:
International (IPC 8-9): E02D5/54 (Advanced/Invention);
E02D5/22 (Core/Invention)
International (IPC 1-7): E02D5/54
CPC: E02D5/54
European: E02D5/54
US: 405/237



Family:

Publication number	Publication date	Application number	Application date
US1404925 A	19220131	US19180222821	19180316

Priority:
US19180222821 19180316

Probable Assignee: MAURICE BLUMENTHAL

Assignee(s): (std): MAURICE BLUMENTHAL

Inventor(s): (std): MAURICE BLUMENTHAL

Inventor(s): BLUMENTHAL MAURICE

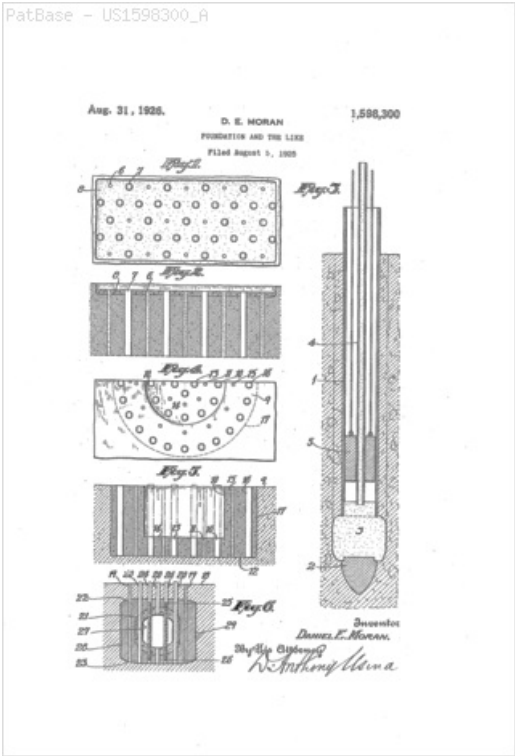
Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US1404925 A	19220131	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: FOUNDATION AND THE LIKE

Classifications:
International (IPC 8-9): E02D3/10 (Advanced/Invention);
E02D3/00 (Core/Invention)
International (IPC 1-7): E02D3/10
CPC: E02D3/10
European: E02D3/10
US: 405/271



Family:

Publication number	Publication date	Application number	Application date
US1598300 A	19260831	US19250048193	19250805

Priority:

US19250048193 19250805

Probable Assignee: MORAN DANIEL E
Assignee(s): (std): MORAN DANIEL E
Inventor(s): (std): MORAN DANIEL E

Legal status (INPADOC)

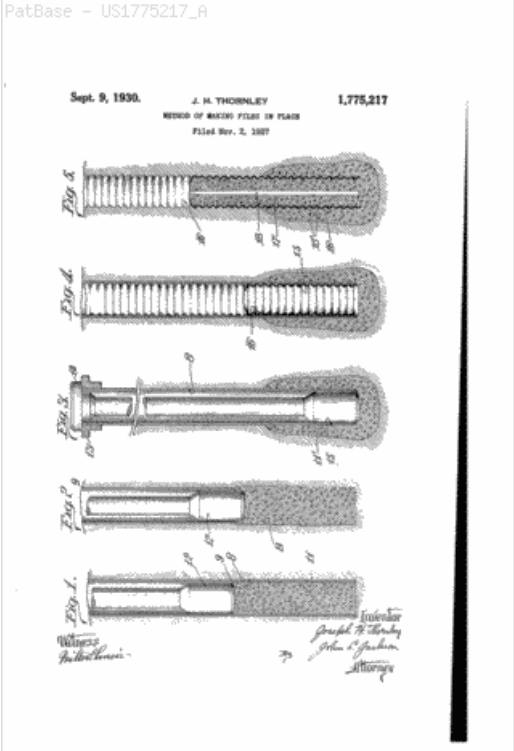
[View legal status timeline](#)

Patent	Date recorded	Event group	Code	Event	Details
US1598300 A	19260831	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: METHOD OF MAKING PILES IN PLACE

Abstract: What I claim as my invention and desire to secure by Letters Patent is the method of forming cast-in-place piles which comprises depositing a charge of concrete in the hole in which the pile is to be formed in direct contact with the earth walls of the hole, expanding the charge of concrete, which socket is retained against the walls of the hole by said casing when said core is withdrawn, 2. The method of forming cast-in-place piles, comprising: forming a hole in the earth, extending a casing down into said hole, depositing a charge of concrete in the bottom of the hole in which the pile is to be formed, ramming a core and casing down into said charge for expanding the latter outwardly to form a vertical socket in said hole, withdrawing said core while retaining said casing in said hole, and completing the pile with the outer portion thereof extending down into said socket. 3. The method of forming cast-in-place piles which comprises depositing a charge of concrete in the bottom of the hole in which the pile is to be formed, ramming a core and casing down into the charge to expand the latter outwardly around the outer sides of the casing in the form of an enlarged pedestal portion, withdrawing said core while retaining said casing within said pedestal portion, lowering a shell within said casing to have its lower end extend into said pedestal portion, dumping concrete into said shell, and withdrawing said casing. 4. The method of forming cast-in-place piles which comprises sinking a hole in which the pile is to be formed, extending a casing down into said hole adjacent to the bottom thereof, depositing a charge of concrete within said casing, raising said casing a predetermined distance to allow the concrete to contact directly with the earth walls at the bottom of the hole, driving said casing with a core therein down into said charge of concrete for expanding the latter outwardly and for forming a vertical socket in said expanded portion, withdrawing said core while retaining said casing in said expanded portion to maintain the form of said socket, lowering a shell within said casing to have its lower portion extend into said socket dumping concrete into said shell and withdrawing said casing after said shell has been lowered into said socket. 5. The method of forming cast-in-place tension resist piles which comprises sinking a hole in which the pile is to be formed, carrying a casing downwardly in said hole to line the sides thereof substantially to the bottom of said hole, dumping a pedestal forming charge of concrete into said casing, placing a core within said casing to bear upon said charge of concrete, raising said casing at a predetermined distance while said core forces the concrete out of the lower end of said casing into direct contact with the earth walls at the bottom of the hole, driving said core and casing downwardly as a unit into the charge of concrete, thereby spreading the charge outwardly against the earth walls for producing an enlarged pedestal portion and also forming a socket at extending down into said pedestal portion, withdrawing said core while retaining said casing substantially in its driven position for sustaining the side walls of said socket, lowering a corrugated shell within said casing to have its lower end extend down approximately to the bottom of said socket, placing reinforcing means within said shell, dumping additional concrete into the same for substantially filling said shell, and withdrawing said casing after said shell has been lowered into said socket.

Classifications:
International (IPC 8-9): E02D5/38 E02D5/44 (Advanced/Invention); E02D5/34 (Core/Invention)
International (IPC 1-7): E02D5/38 E02D5/44
CPC: E02D5/385 E02D5/44
European: E02D5/38B E02D5/44
US: 405/237 405/239



Family:

Publication number	Publication date	Application number	Application date
US1775217 A	19300909	US19270230434	19271102

Priority:

US19270230434 19271102

Probable Assignee: WESTERN FOUNDATION CO

Assignee(s): (std): WESTERN FOUNDATION CO ; WESTERN FOUNDATION COMPANY

Inventor(s): (std): THORNLEY JOSEPH H

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US1775217 A	19300909	LSGT	+	granted / extensions (spc, cpc, pte)	

Abstract: (Claim 1) 1. In a method of driving into the ground a thin sheathing made up of at least one frustoconical section of downward taper, which method consists in engaging therein a hollow removable mandrel of corresponding outer taper and having its lower end spaced a distance above the lower end of the sheathing so as to leave a part of the latter projecting beyond the mandrel, discharging into the assembly a quantity of compressible unset material, compressing the said material so as to form a sealing plug extending within the lower end of the mandrel and the part of the sheathing projecting below the mandrel, driving the assembly into the ground by applying a driving force on the top of the sealing plug, and withdrawing the mandrel while simultaneously expelling the material from the mandrel into the sheathing.

International (IPC 8-9): E02D7/30 (Advanced/Invention);

International (IPC 1-7): E02D7/30

European: E02D7/30



Priority:

Probable Assignee: FRANKIGNOUL PIEUX ARMES

Assignee(s): INT DES PIEUX ARMES FRANKIGNOUL SOC ANONYME COMP ; COMPAGNIE INTERNATIONALE DES
PIEUX ARMES FRANKIGNO ; COMPAGNIE INTERNATIONALE DES PIEUX ARMES FRANKIGNOUL SOCIETE
ANONYME

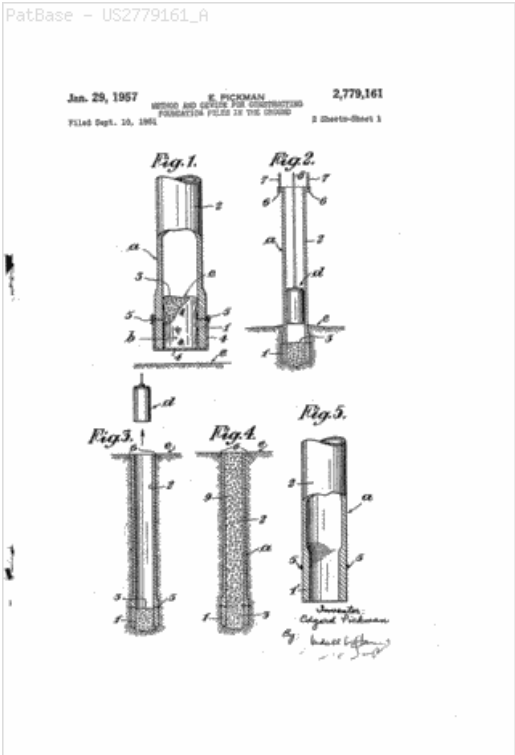
Inventor(s): PICKMAN EDGARD

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Title: METHOD AND DEVICE FOR CONSTRUCTING FOUNDATION PILES IN THE GROUND

Abstract: (Claim 1) 1. In a method for constructing a foundation pile in the ground by means of a driving tube, introducing into the lower portion of the tube through the lower end thereof a deformable wrapper filled with a predetermined quantity of compressible loose material, releasably attaching the filled wrapper to the lower end of the tube, and subjecting the filled wrapper to ramming from inside the tube for forming a plug adhering to the tube and capable of sinking the tube under the action of continued ramming on the plug.

Classifications:
International (IPC 8-9): E02D5/38 E02D7/28 (Advanced/Invention); E02D5/34 E02D7/00 (Core/Invention)
International (IPC 1-7): E02D5/38 E02D7/28
CPC: E02D5/38 E02D7/28
European: E02D5/38 E02D7/28
US: 138/105 405/237 405/249



Family:

Publication number	Publication date	Application number	Application date
US2779161 A	19570129	US19510245861	19510910

Priority:
19500915 US19510245861 19510910

Probable Assignee: CIE INT DES PICUX A

Assignee(s): (std): CIE INT DES PICUX A ; CIE INTERNATIONALE DES PICUX A

Assignee(s): COMPAGNIE INTERNATIONALE DES PICUX ARMES FRANKIGNO ; COMPAGNIE INTERNATIONALE DES PICUX ARMES FRANKIGNOUL SOCIETE ANONYME ; INT DES PICUX ARMES FRANKIGNOUL SOC ANONYME COMP

Inventor(s): (std): EDGARD PICKMAN

Inventor(s): PICKMAN EDGARD

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US2779161 A	19570129	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: METHOD FOR MAKING AND INSTALLING CONCRETE PILES AND THE LIKE

Abstract: (Claim 1) 1. Method for forming and installing pile shells of concrete and the like which comprises casting a layer of the concrete upon the exterior of a rigid metal mandrel which forms a mold for the interior surface of such concrete layer, then after such concrete layer has hardened and become bonded as a rigid mass with respect to the mandrel, driving the mandrel into the earth with such layer thereon directly engaging the earth under pressure resulting from the driving, at the location of a desired pile, and extracting the mandrel from within the concrete, thereby leaving the concrete in the earth to provide a concrete pile shell.

Classifications:

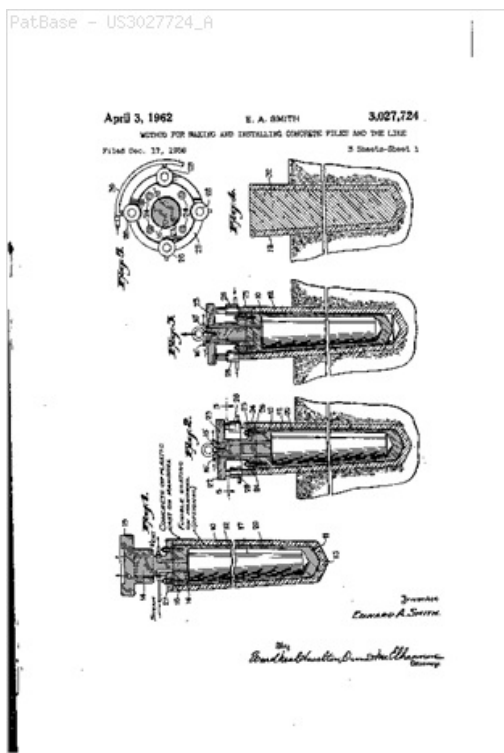
International (IPC 8-9): E02D5/48 E02D7/30 (Advanced/Invention);
E02D5/22 E02D7/00 (Core/Invention)

International (IPC 1-7): E02D5/48 E02D7/30

CPC: E02D5/48 E02D7/30

European: E02D5/48 E02D7/30

US: 249/51 405/245



Family:

Publication number	Publication date	Application number	Application date
US3027724 A	19620403	US19580781083	19581217

Priority:

US19580781083 19581217

Probable Assignee:

RAYMOND INT INC

Assignee(s): (std):

RAYMOND INT INC

Assignee(s):

RAYMOND INTERNATIONAL INC

Inventor(s): (std):

SMITH EDWARD A

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3027724 A	19620403	LSGT	+	granted / extensions (spc, cpc, pte)	

Title: EXPANDABLE MANDREL FOR HOLLOW PILES

Abstract: (Claim 1) 1. In combination with a tubular pile having a longitudinal axis, an expandable mandrel adapted to drive said pile into the ground comprising, an elongated passive member and an elongated active member, said members having confronting faces and pile engaging surfaces, said passive member being disposed in axially fixed position within the tubular pile and having a lower end portion axially engaging the pile, said active member being axially displaceable within the pile and having a lower end portion and an upper driving end portion, and means mounted within both of said elongated members and extending between the confronting faces thereof for maintaining said confronting faces in parallel and laterally fixed relation to each other when displaced in response to axial displacement of said active member by a driving force at the driving end portion thereof, said last-mentioned means including, an elongated pin slidably mounted in axially aligned bores formed in said elongated members, the bore in said active member extending at an angle to said longitudinal axis from the pile-engaging surface through the confronting face, a stop element fixed in the bore of the active member adjacent the pile-engaging surface to limit movement of the elongated pin within said axially aligned bores, the bore in said passive member extending at an angle to the longitudinal axis from the confronting face terminating within the passive member spaced from the pile-engaging surface thereof, said passive member being formed with a vent passage between the bore therein and the pile-engaging surface thereof.

Classifications:

International (IPC 8-9): E02D7/30 (Advanced/Invention);

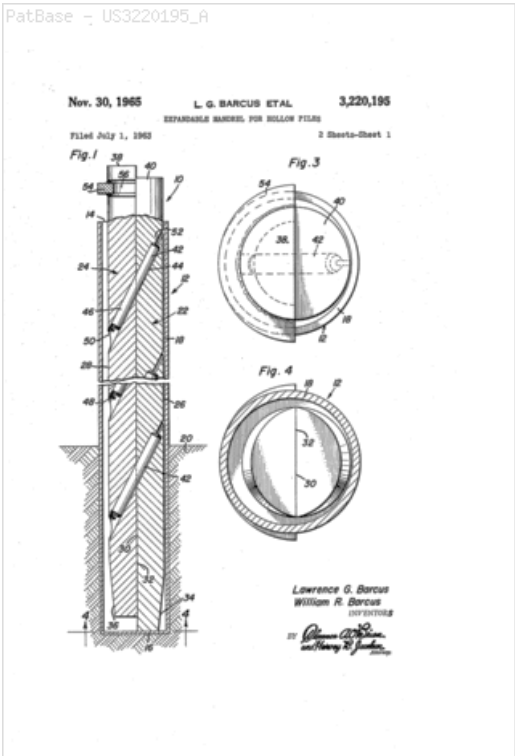
E02D7/00 (Core/Invention)

International (IPC 1-7): E02D7/30

CPC: E02D7/30

European: E02D7/30

US: 242/573.7 405/246 81/442



Family:

Publication number	Publication date	Application number	Application date
US3220195 A	19651130	US19630292052	19630701

Priority:

US19630292052 19630701

Probable Assignee:

BARCUS LAWRENCE G

Assignee(s): (std):

BARCUS LAWRENCE G ; BARCUS WILLIAM R

Inventor(s): (std):

BARCUS LAWRENCE G ; BARCUS WILLIAM R

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3220195 A	19651130	LSGT	+	granted / extensions (spc, cpc, pte)	

Abstract: (Claim 1) 1. Pile shell driving mandrel construction, including a substantially rigid longitudinally continuous mandrel member having a head portion at the upper end of the member and a downwardly inwardly tapered shell-driven always assures that the mandrel can be extracted. 7,5 tating portion extending downward from said head portion to the lower end of the member, the mandrel head portion having a lower end, the tapered mandrel portion comprising tapered tubular sheet metal means having an upper end telescoped over the lower end of the head portion, means securing the telescoped upper end of the tapered tubular means and the lower end of the head portion together, there being an annular recess formed in the head portion above the upper end of the tapered tubular means, floating driving ring means mounted on the head portion around said recess for movement axially of the head portion, and the recess limiting axial movement of the ring means on the head portion.

International (IPC 8-9): E02D5/66 E02D7/30 (Advanced/Invention);
E02D5/00 E02D7/00 (Core/Invention)

International (IPC 1-7): E02D5/66 E02D7/30

CPC: E02D5/665 E02D7/30

European: E02D5/66B E02D7/30

US: 405/245



Priority:

US19640398291 19640922

Probable Assignee: UNION METAL MFG CO

Assignee(s): (std): UNION METAL MFG CO : UNION METAL MFG COMPANY

Assignee(s): THE UNION METAL MANUFACTURING COMPANY

Inventor(s): (std): RAUSCH GEORGE D : GIBBONS HARRY DE R

Legal status (INPADOC)

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Title: PILE DRIVING MANDREL CONSTRUCTION AND METHOD FOR DRIVING EXTENSIBLE PILES

Abstract: (Claim 1) 1. Apparatus for setting piles, including a tapered tubular sheet metal pile shell section having a nose and an upper end provided with an outer side, a thin gauge tubular sheet metal shell extension section having a lower end provided with an inner side, ring means connected to the tapered section upper end and to the extension section lower end with the extension section extending upwardly of the upper end of said tapered section, said ring means including a portion extending inwardly of the inner side of the extension section to the outer side of the upper end of the tapered section and forming a driving shoulder, a substantially rigid longitudinally continuous main mandrel member having a head portion with an upper end and a tapered shell contacting portion extending downwardly from the head portion and telescoped in contact within the tapered shell section, a secondary tubular mandrel member telescoped within said shell extension section and surrounding the main mandrel head portion having a lower end engaged with said driving shoulder and having an upper end located adjacent but spaced below the main mandrel upper end, mandrel-engaging and shell-driving cap means releasably telescoped over and engaged with the main mandrel upper end, the tapered mandrel portion in contact with the tapered shell section prior to driving holding the cap means spaced from driving engagement with the upper end of said secondary mandrel member, and means for establishing driving engagement between the cap means and the upper end of the secondary mandrel member to directly drive the upper end of the tapered shell section through said secondary 5 mandrel and driving shoulder after the mandrel has been driven into the tapered shell section to penetrate the tapered shell section a predetermined distance.

Classifications:

International (IPC 8-9): E02D5/66 E02D7/30 (Advanced/Invention);
E02D5/00 E02D7/00 (Core/Invention)

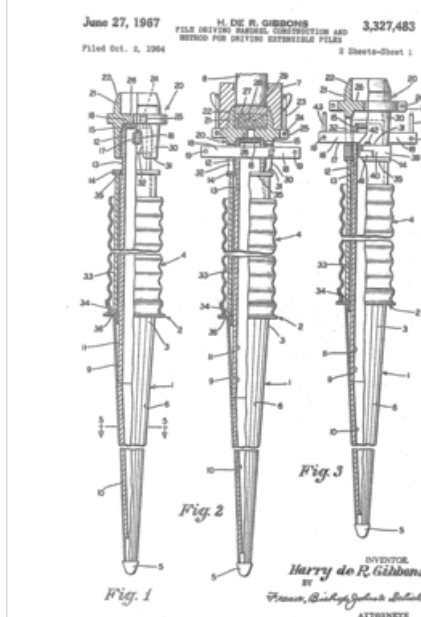
International (IPC 1-7): E02D5/66 E02D7/30

CPC: E02D5/665 E02D7/30

European: E02D5/66B E02D7/30

US: 405/245

PatBase - US3327483_A

**Family:**

Publication number	Publication date	Application number	Application date
US3327483 A	19670627	US19640400996	19641002

Priority:

US19640400996 19641002

Probable Assignee: UNION METAL MFG CO

Assignee(s): (std): UNION METAL MFG CO ; UNION METAL MFG COMPANY

Assignee(s): THE UNION METAL MANUFACTURING COMPANY

Inventor(s): (std): GIBBONS HARRY DE R

Legal status (INPADOC)

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Patent	Date recorded	Event group	Code	Event	Details
US3327483 A	19670627	LSGT	+	granted / extensions (spc, cpc, pte)	